REPEATER JOURNAL

SouthEastern Repeater Association, Inc.

NOVEMBER
1988
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W4NHV

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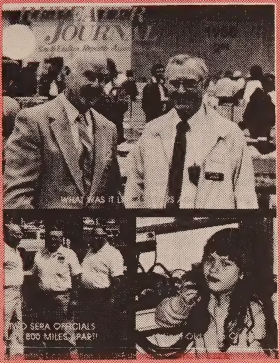

Our triple color picture cover this issue portrays various articles in this issue. At the Top, the story of two charter members of the Charlotte Mecklenburg ARS. Bottom left, SERA officials who live 800 miles apart, get together. And bottom right, Sandi Saunders just may be the youngest Extra Class in the nation. Photos ctsy.: Bob Darks, W4MHF, Ray Adams, N4BAQ and Ruth Saunders, N4QLZ. See separate stories this issue.

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REPEATER JOURNAL

NATIONAL AWARD WINNER

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·SouthEastern Repeater Association, Inc.

Nov., Dec. 1988
Volume 17, No. 4
ORGANIZED IN 1971
"Completing 17 Years"

Editorial Comment

(An Open Letter to the League)

Dear Mr. ARRL:

Would you please tell us just what you are doing to the coordinators of the nation?

Your actions of the immediate past seem that you are trying to alienate or destroy what cooperation you have had from your "friends" in the coordination area of the country.

On the one hand you have tried to recognize coordinators by publishing "minute 61" of your July Directors meeting which with the exception of non recognition of two troublesome areas did an admirable job of patching up some of the damage you did in your 1988 Repeater Directory.

On the other hand, somehow, your "minute 61" got revised and ice was dashed on everything you had sought to accomplish by going too far in "non recognition", as published in October QST.

What happened to Missouri and Kansas? They were in the original minutes, but somehow got left out in the October report. MACC (Mid-America Coordinating Council) is understandably upset. You jerked two of their states out of the "recognition" list, just because they have some conflict as to who is current coordinator in the Kansas City area. Does this eliminate two whole states?

Why is SERA concerned? Well, suppose an irate person in the Westermost tip of North Carolina decides to gather some friends and proclaim he is the official coordinator for the Western tip of North Carolina, and include tips of Georgia, Tennessee and South Carolina, say a 50 square mile area. Will the ARRL eliminate all four of these States from being recognized under SERA. This is our point!

Let's Back up a bit!

For the benefit of you ARRL folks who have never found out what is going on, whether it be from HQ not letting you in on the word, or whether all of you never got information straight from the Coordination councils side of the coin, it certainly isn't because we haven't tried.

Here is, simply put, what we are upset about:

In January 1988, MACC, SERA and several other Councils found out that the League would publish **any** Coordinator in the upcoming Repeater Directory who could acclaim Amateur support. We all knew (apparently the league didn't) what this would do, since the FCC numerous times, most recently in Docket 87-14 Report and Order, has said the ARRL Repeater Directory is the only nationwide publication of its type, then it must be acknowledged to be essentially accurate in its listings.

The listings are taken to mean repeaters **and** coordinators.

MACC and SERA both appealed to ARRL (headquarters) and in some instances our Division Directors and Vice Directors to **not** publish the complete coordinators list in that way because it would be detrimental to the Coordinators who had served those communities for so many years. It would tend to usurp the respect and confidence of the Coordination Councils involved in the conflicts. (Incidentally, MACC told us they had a problem with contacting their Midwest ARRL Division Vice-Director, because he at the time was President of the conflicting MOCAN council which claims coordination rights in the Kansas City area, in direct conflict with

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REPEATER JOURNAL

Nov., Dec. 1988

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About Associate Membership

Repeater users and Amateurs are invited to join SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication — Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. SERA does not issue receipts for Membership applications. Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 24292, Winston-Salem, N.C. 27114-4291. Associate Members may hold appointive positions within SERA.

About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calendar year.

About the Repeater Journal. . .

The SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of Southeastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newsletter exchanges should be mailed to the editor: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

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About SERA. . .

The Southeastern Repeater Association is one of the largest Non-Profit Repeater Councils in the United States. SERA Territory covers over 1,000 repeaters in member states of North Carolina, South Carolina, Virginia, Tennessee, West Virginia, East Kentucky and Georgia. In our 17th year, our goal is to continue providing a pleasant operating condition in the VHF/UHF spectrum of Amateur Radio through Coordination and information.

Flurry of Activity Going On Within SERA

— by Wayne C. Williams, K4MOB
Editor, The Repeater Journal

It started as we ended our August Board meeting. So many things need updating, so many things to do, so little time!

As our computers get more on line, we are able to process more information within the organization, and keep our Directors and Vice-Directors more fully informed as to what is happening between issues of the Repeater Journal.

Some of the projects presently underway within SERA.

(1) Re-design and printing of new, more attractive Associate Membership applications. Job being handled by Wayne, K4MOB and David, KA4LVO.

(2) Re-write of the Coordination Policy of SERA. Idea is to clarify, the document, make minor changes to clear up some confusing issues, and to put it into a new, paragraph titled format, making particular items easier to find in a hurry. Project being headed by Wayne, K4MOB, with assistance of all board members.

(3) Re-write and update SERA Articles of Incorporation and Bylaws, to reflect the current trend of Amateur Radio and Coordination Council requirements. Project is being headed by Ray Adams, N4BAQ and David, KA4LVO, and will untimately be voted on by the full board.

(4) Program changes by David, KA4LVO, and keyboarding and outputting assistance by Wayne, K4MOB, data base sheets will be mailed to every repeater owner in the seven states by early December, to allow them to complete or correct information we have on their repeaters. The massive job of keyboarding in the information will be done in early 1989.

(5) Ray Adams, N4BAQ, our SERA "world traveler" is lining up more speaking engagements on behalf of SERA. Last year among others, he was guest speaker for SERA at Dayton, Louisville, Ky., Birmingham, Ala. and several other states. His purpose is to relay to other Coordination Councils, and areas, the operations and working of SERA. His efforts in 1988 have gained SERA nationwide recognition, with a reputation as one of the most organized, well operated Coordination Councils in the nation, second largest, but the best organized.

(6) A plan has been developed and approved, to mail special abbreviated Repeater Journals to EVERY Amateur in selected SERA states, to get the word out of our organization, and solicit Associate Membership from them. A planned first-run test is planned before the end of the year. Journal Editor, Wayne Williams, K4MOB, is busily designing a "tailored" edition for the first State selected. Mailing labels are being purchased for the mailing. First run will be over 8,000. David Ward, KA4LVO, will be in charge of distribution, and acquisition of labels. Although it is still to be worked out, the Journals will probably be shipped to the State involved, where a contingent of SERA personnel will get the books labeled, and mailed from that state. The main idea is to increase membership in SERA, second, recognition by the Amateur Community as that area's Coordinator, and being available for assistance should the need arise.

(7) Our various Directors are busily gathering nominations for Directors and Vice-Director. They are listed in a separate story in this issue. Elections take place in late November. The new Directors and Vice-Directors will take office on January 1, 1989. President Carter Cogle, K4ARO, and Secretary Barbarra Gregory, WA4RMC are heading up this project.

(8) A few more changes are in the works for the Repeater Journal. A new color scanner was placed into use (by our color separator) for the August issue, which greatly improved the appearance of the color cover of the Journal. We also changed the type face in the Journal, making it easier to read.

In 1989, new heads will be made, to easily identify stories from State Directors, and other standing columns which appear each issue. An effort is being made to further increase coverage of the Hamfest Calendar, and VEC Exam schedule pages. We hope to make more extensive use of pictures in upcoming Journals, as more Ham photographers are on the lookout for pictures for us. As SERA becomes more known, we hope to publish more information about other Coordination Councils.

(9) Setting up a second, simplified data base for repeater indexes for states outside SERA territory is a new project assigned to Wayne, K4MOB. It is hoped that five or six more states can be added and kept up-to-date on our computers, so at any time desired, we can publish additional indexes of selected states. The data base program should be in place, and some lists acquired from other States by the first of the year. A cooperative effort from other Coordination Councils will allow us to keep the data base updated at least simi-annually.

Well, those are some of the projects we who "work" for SERA are presently involved in at the moment. I'm sure more will come along, but as you can see, we're really working, to make you proud of the organization you have supported and has been around for 17 years.

We are always open to your comments. Sometimes your letter might not get answered quickly, or directly, but everyone's input is carefully considered. If manpower is available, and it is a good idea, we do it!

SERA and the Repeater Journal is YOUR organization!

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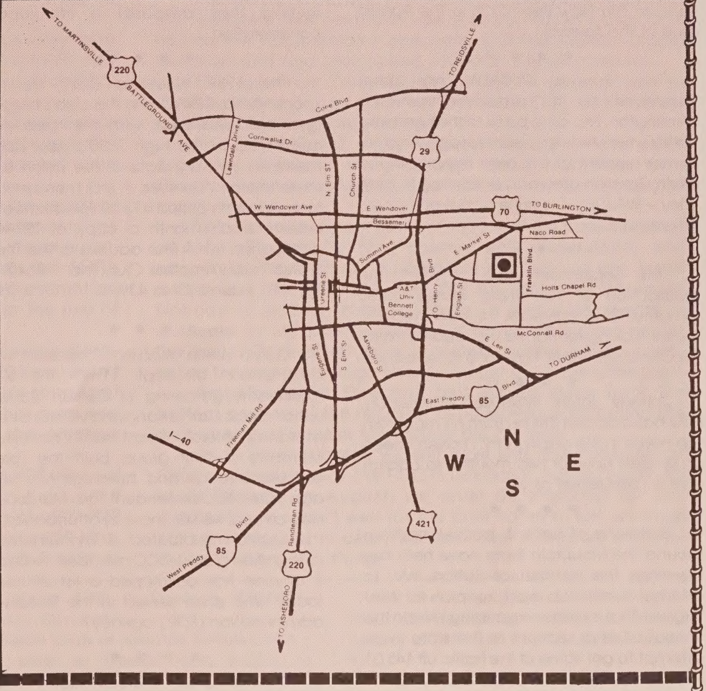

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On Monday, Sept. 19, I heard a "4" call on the 146.64 Huntington-Charleston repeater. I asked the ham to QSY to the Oak Hill 146.79 repeater for better copy. The traveler was Rudy Friederich, AB4FW, and his XYL, N4PTO, who was nearby on US route 60. We arranged and eyeball QSO at the Quincy Center mall which is about a mile and a half from my home. Rudy's a member of the New Bern (NC) ARC (as I once was when I worked for WCTI Television there in the late 1970's. It turned out we both knew a number of hams in that area of eastern North Carolina. I asked him to carry back my felicitations. And I suppose his call had sounded familiar as he had a small news item on the New Bern Club in the August issue of the **Journal**.

• • • •

Terry Sanner, WD4ALW, has been transferred by his employer from the Wilmington, NC, area back to the Kanawha Valley which he left over a year ago. Another former resident of this area remains in the North Carolina area and according to Terry, Larry -- WA4RHY -- is quite active on packet where he is.

• • • •

The September issue of B-N-T, the publication of the Triple States Radio Amateur Club, arrived in the mail in a new, better looking format. As usual editor Ralph McDonough, K8AN, has done a superb job.

• • • •

Johnny Jones, WB8CQV, Charleston, now has a packet BBS on from his mountain top home in the capital city. I haven't been on packet now for two months, so cannot give a users report as yet.

• • • •

Speaking of packet, packeteers from around the Mountain State have held two meetings this summer at Sutton, WV, to attempt to develop a packet plan for West Virginia. That includes organizing LANs in the various cities or sections of the state in an attempt to get some of the traffic off 145.01 Mhz. Gerry Sizemore, WD8SEN, of Hurricane and the West Virginia Amateur Radio, Inc. club (formerly the Putnam Amateur Radio Association) was one of several area hams at attend both meetings and he promised to write up something about the meetings and forward them directly to **Journal** editor Wayne Williams, so you should find that material elsewhere in this issue.

• • • •

One of my correspondents sent me a voodoo recipe for a poison ivy remedy but for now I can't put my hands on it, so will defer that till the next issue in February. We have some remodelling work underway at the house and all this week my shack has been dismantled and I can't find a lot of things, including my notes on that.

• • • •

The Kanawha Amateur Radio Club at Charleston is considering a proposal to use its building fund monies for its own repeater system. For years the club has affiliated with Johnny Jones', WB8CQV repeater. The proposal calls for a switch to the KD8TC machine owned by Tom Glaser. It would call for an improved repeater with a few additional "bells and whistles". As of this writing that proposal is still under consideration.

WEST VIRGINIA NEWS

— Compiled and edited
by Ted Wolfe, WD4KHL

Send your newsworthy items from West Virginia directly to Ted to be included in this column. Address: P.O. Box 133, Cabin Creek, WV 25035. (304) 595-3970. Also KA8ZXP, Clarksburg or WA8USO, Ravenswood Packet BBS. Allow 1 week prior to regular Journal Deadlines for inclusion in current issue.

• • • •

The 1989 Wheeling (WV) hamfest sponsored by TSRAC was the club's biggest and best. The club, with members now numbering in the high 2300's, now boast members in every state of the union and three foreign countries. A trial membership for a six month period is $3.50, for which you'll receive each month a copy of TSRAC's publication B-N-T. The address is: The Triple States Radio Amateur Club, Inc. -- Box 240, Rd. #1 - Adena, Ohio 43901.

• • • •

Calvin White, W8ZHN, Charleston, was co-chairman on Sept. 11 for the 50th Anniversary gathering of Civilian Conservation Corps Camp Kanawha veterans held at Kanawha State Forest near Charleston. Members of that group built the Forest complex's roads and buildings fifty year ago. Forest Superintendent Tom Murdock is also a ham, K8IXO. Those in attendance at the reunion dedicated a monument in recognition of past CCC members. I wonder if anyone has developed a list of hams today who once served in the Roosevelt administration (FDR) agency?

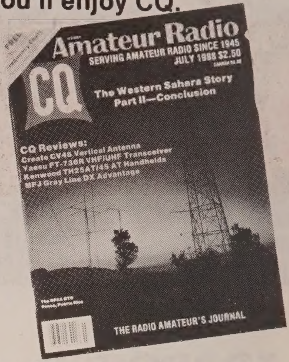
• • • •

West Virginia Director Karl Morris, WB8GDY, tells me Dick Fowler, N8FMD, Clarksburg, still plans a repeater in the Kanawha Valley area to be linked with his Clarksburg machine. The 145.190 Mhz frequency pair has been coordinated for that purpose for some time, with the valley location to be on Malden Mountain a short distance from Charleston. Karl tells me Dick has been quite busy on his job most of the summer and that accounts for the delay. When Dick can get free to work on the proposed repeater, it will move forward, according to Karl.

• • • •

Till the February issue then, with this final reminder. Repeater dues run on a calendar basis, so be sure you've renewed your repeater's membership in the Southeastern Repeater Association during January. And check your mailing label for the expiration date of your Journal if you're an associate member and want to keep your issues coming.

If you enjoy Amateur Radio, you'll enjoy CQ.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FCC Releases 220 Mhz. General Docket 87-14 Report & Order

The FCC released the long-delayed General Docket 87-14, Report and Order on 220 Mhz. in September. As the news had broken several weeks earlier, 2 Mhz. on the bottom of the 220 Band was to be turned over to the land mobile radio market.

One good thing, the docket also said that Amateurs would get the remaining 60% of the band on an exclusive basis, something we hadn't had on 220 since 1958.

An immediate uproar was heard across the country from 220 interests. Several groups are quite upset. The ARRL has promised to "fight to the death" in an attempt to get the FCC to reverse their decision.

As this is being written, Amateurs across the nation were being urged to file Petitions for Reconsideration with the Commission. The FCC had said they would accept such petitions until October 19.

In the Report and Order the FCC praised the Amateur Service, but on the other hand refuting in detail many of the arguments which hams had entered with their Comments.

The FCC said, "We continue to believe that the ARRL Repeater Director provides the best available representation of Amateur fixed/mobile/repeater operations in the use of the 220 band."

The Commission implied that other than some states such as California, New York and Texas, the 220 band didn't even have enough repeater operations to require sharing of channels. Thus the Commission concluded that from any perspective the 220 band is lightly used by the Amateur Service.

The FCC said that with the exception of 400 Khz. of spectrum allocated for experimental and control links, all of the Amateur activities listed in the band plan for 220-222 Mhz. would have exact duplicate provisions above 220 Mhz.

Although the FCC has not set a date in which Amateurs will have to vacate the lower 2 Mhz. of the 220 Mhz. band, it will not be until sometimes in 1989, thus giving Coordinating Councils and Repeater owners and users time to plan for an orderly shift when the time does come.

SERA has already approved a tentative revised 220 bandplan and submitted it to various other Coordination Councils, and to the ARRL VRAC, to possibly be used as a blueprint for constructing a workable bandplan everyone can use on 220 Mhz.

Briefly, the SERA plan proposes the removal of the lower 9 repeater channels, between the inputs of 222.30 to 222.48. This would displace only 32 repeaters in our 7 states. A cursery look at these repeaters indicate that most would have several clear channels they could move to.

The vast area between the 1.6 Mhz. inputs and outputs of the repeaters has been put into a more efficient use, with named FM voice simplex channels, and designated Digital channels and one high speed 100 Khz. Digital channel.

The spectrum from 222.00 to 222.50 is proposed to handle other services such as CW, SSB, EME and Control Links and Linking frequencies.

The SERA Board urges repeater owners to keep calm, especially those in the proposed removal portion. Your Director will be contacting you with all the assistance you might require.

"We certainly hope and actually feel that the repeater owners affected by this change will understand, and cooperate fully with us," said Wayne Williams, as the Board introduced the proposed new 220 bandplan for approval. Nobody is getting dumped, there is plenty of spectrum available for an orderly movement toward the upper end of the band. Several effected repeater owners have already asked for new pairs to go ahead and get the move underway.

Actually SERA Directors had stayed away from the bottom portion of the repeater band while coordinating the past year, just in case something did happen.

As to what success we will have with the Petitions for Reconsideration with the FCC is unknown, but as the Board of SERA said in August, we must be prepared for any eventuality, we can't wait for the final boom to fall, we must start moving just in case, we don't like it, but we must be realistic about this thing.

Foundation of AR Scholarships

The FOUNDATION FOR AMATEUR RADIO is pleased to announce the 1988 winners for the twenty-eight (28) scholarships which it administers.

John W. Gore Memorial Scholarship - $1000 to Richard M. Kordick, KE0AS - Bridgewater, IA.

Richard G. Chichester Memorial Scholarship $900 to William J. Hulka, NU9K - Kokomo, IN.

Edwin S. Van Deusen Memorial Scholarship $500 to James D. Weldon, N1DFQ - Marlboro, MA.

QCWA Memorial Scholarships - $700 each: Annette J. Barnhart, N3DKT - Mt. Pleasant, PA; Douglas M. Benish, N3CXB - Pittston, PA; John G. Eye, N0HWD - Isle, MN; David A. Hart, N7FYT - Bellingham, WA; and Patrick W. Jungwirth, WG6L - Visalia, CA.

QCWA Leo Meyerson Family Living Scholarship $700 to Douglas E. Swiatlowski, KA2KMT - Camillus, NY.

QCWA Robert S. Cresap Memorial Scholarship $700 to Diane E. Willemin, KE8DJ - Elyria, OH.

Radio Club of America Scholarships - $500 each to Gerard Hart, KC2OJ - Hampton Bays, NY and Martin J. Van Der Burgt, KA9MSR - Kaukauna, WI.

Edmund B. Redington Memorial Scholarship $500 to William H. Sands, IV, KA3FXX - Pennsburg, PA.

Young Ladies' Radio League Scholarship - $750 to Carol A. Dunlap, N1EHS - Southwick, MA.

Amateur Radio News Service Scholarships - $600 each to Michael P. Krensavage, KA3CUP - Marietta, GA. and Jack R. Porter, KC0VX - Lawrence, KS.

Columbia Amateur Radio Association Scholarship - $750 to David S. Katz, N3DKV - Bowie, MD.

Baltimore Amateur Radio Club Scholarship $1000 to Paul Schleck, KD3FU - Mt. Ranier, MD.

Dade Radio Club Tropical Hamboree Scholarships - $500 each to Stuart Rosner, WU4L Boca Raton, FL. and David P. Tancrell, KB4GIA - Palm Bay, FL.

Rose Ellen Bills Memorial Scholarship - $2000 to Richard Westenberger, N9DKR - Springfield, IL.

Victor C. Clark Memorial Scholarship - $500 , Sponsored by the Vienna Wireless Society to William T. Free, KC3YO - Fairfax, VA.

Frederick Amateur Radio Club Scholarship $1000 to Kurt Rupprecht, N3EIO - Salisbury, MD.

Department of State ARC Scholarship - $750 to Victoria L. Gruen, KA2VHR - Runnemede, NJ.

10-10 International Net, Inc. Scholarships - $750 each to Stephanie Ann Dougherty, N8FIT - Yale, MI. and Nathan W. Willingham, KA0UFO - Bevier, MO.

Emil Kumershek (W9WYF) Memorial Scholarships - $700 each, Sponsored by the West Allie Radio Amateur Club to Douglas K. Kleeman, KA9LWN - Shawano, WI. and Scott L. Young, N9FZS Colby, WI.

These scholarships were open to all Radio Amateurs meeting the qualifications and residence requirements of the various sponsors. The FOUNDATION is a non-profit organization representing fifty clubs in Maryland, the District of Columbia and Northern Virginia. It is devoted exclusively to the scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

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FCC News Briefs. . . . . .

— Compiled via: SERA, News5YI, Westlink FCC and ARRL Newsletter

17-Meter Band FCC Docket Released

(Westlink) -- The FCC has released PR Docket 88-4671, which proposed the opening of the 17-meter band for Amateurs in the United States. The rulemaking procedure is to determine the way in which hams want the band used. Specifically, the docket proposes giving Amateurs access to the entire band with a 42 Khz. CW/Digital emissions subband from 18.068 to 18.110 Mhz.

The balance of the band would be for phone, fax and television emissions of the types authorized for use below 30 Mhz.

According to the Commission proposal, access to 17 meters would be limited to Extra, Advanced and General Class licenses because of the skill level it perceives needed to operate in this band. Power limitations would be the same as for other HF Amateur allocations.

The second step will be the issuance of a NPRM by the FCC.

Technician Fastest Growing License

(W5YI) -- According to the FCCs Personal Radio Branch Chief, Johnny Johnston, W4BE, Technician is now the fastest growing (in percent) license class in Amateur Radio.

The annual growth figures through July 1988 was 9.59%, compared with Extra, 7.19%; and Advanced, 0.52%.

On the other hand, General Class licenses declined by 1.06% and Novices declined by 3.06%. The overall Amateur population growth rate for 1988 thru July was 1.96%.

220 Class Action Suit Being Filed

(W5YI) -- New Jersey attorney, Robert B. Cherry, K2HBX, is in the process of filing a class-action suit against the FCC. He says, in his opinion, the manner in which the FCC reallocated 220-222 Mhz. to narrow band business interests is blatantly illegal. Cherry has opened a bank account to start and accumulate a 220 Defense Fund. (P.O. Box 476, Totowa, NJ 07512).

WCARS-VEC FCC Petition on Code Withdrawn

(W5YI) -- On behalf of WCARS-VEC and representing VEC interests, Ray Adams, N4BAQ has withdrawn his two petitions (RM-6094 and RM-6095) seeking changes in the manner in which Morse code tests are administered at VE/VEC examinations.

The VECs had requested that Morse code testing rules revert back to the previous wording which provides that code tests "may" (but not necessarily "shall") contain all required characters.

In addition, the VECs wanted Morse code tests to be of at least 5 minutes duration, but not necessarily exactly 5 minutes in length.

Adams said the petitions were withdrawn since the FCC is now dealing with these matters as part of the new Part 97 re-write of the Amateur Radio Service rules.

Part 97 Re-Write Comment Period

(W5YI) -- The new comment cut-off date for submitting your comments on the "Reorganization and Deregulation of Part 97 of the Commissions Rules governing the Amateur Radio Services" is now extended to November 29th. Reply comments are due by January 31, 1989.

10M Channel Activity Indicator Receiver Is Proposed

(The following is edited from a proposal made by George Kellogg, WA6SUV of Chico, Ca. to the ARRL VRACO.

As many of you know, when the 10-Meter band is closed, things are quiet. A ten-meter repeater functions locally on ground wave much the same as two meters, UHF or 220 Mhz.

When the band opens up, ground propogation is gone and 10-Meter machines begin to hear all kinds of DX, unfortunately it starts hearing all other participants of other 10-Meter machines on the same frequency across the country.

The former solution to the problem was for repeater owners to revert to sub audible tone control, to prevent their repeater from being keyed up from distant users of other repeaters on the same frequency. A problem exists here, many rigs do not come with sub audible tone built-in, causing an operator to have to go and spend $30 to have one installed.

After much discussion with other trustees and users and hours of experimentation, I have come up with another suggestion which I submit to you all as Amateurs, the ARRL and the FCC to consider and make further comments on.

The proposed changes will rest on the shoulders of the owners or trustees of the 10-meter machines, not the users.

Proposal

A receiver should be installed in addition to all other equipment, capable of operating on the same frequency of the main Transmitter output.

This new receiver will hear everything on the output of the repeater. When the repeater is off, the new receiver is on and listening, on the same channel as the output. It is strongly recommended the receiver be at a site away from the transmitter, and linked to the main repeater transmitter via 220 or 440 mhz.

The receiver will be a voter system. When it hears a signal, or several signals, it will pick up the strongest signal and keep the repeater **turned off:** i.e. if the repeater output receiver is hearing a distant repeater, chances are the input would be hearing a distant input, so it keeps the repeater turned off, until nothing is heard on the output frequency, signalling that the channel is clear. THe repeater would then be released automatically when an **input** signal is received, to come on the air and do its job.

The "channel activity indicator receiver" will work well when the band is open. When it hears signals on the output frequency of your 10-meter machine, it knows another machine (due to propagation) is likely to interfer, so it will keep your repeater off, until that signal ceases to be heard, then your repeater will be able to come on and operate normally.

I respectfully submit these ideas to all trustees of repeaters operating especially on 29.68 Mhz. and to others who are interested.

(Editor's Note): If you wish to comment, or receive a copy of the complete 4-page proposal, write to George Kellogg, P.O. Box 1899, Chico, Ca. 95927.

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B-108 - .5-15W In/8-88W Out, (List $189).......... $149.00
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B-3016 - 1-45W In/16-175W Out, (List $247)....... $219.00
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B-3016R REPEATER - 12W In/120W Out, (List $431) .. 345.00

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C-106 - .5-15W In/5-78W Out, (List $210) $169.00
C-1012 - .5-15W In/7-145W Out, (List $315) $239.00
C-3012-1-45W In/8-135W Out, (List $260)......... $229.00
C-211R REPEATER - .5W In/80W Out, (List $493) ... $389.00
C-1012R REPEATER - 5W In/90W Out, (List $493) .. $389.00
C3012R REPEATER - 15W In/90W Out, (List $423) .. $369.00

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D-3010N - 10-40W In/50-130W Out, (List $312) $279.00
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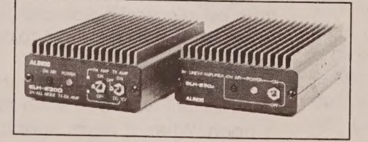

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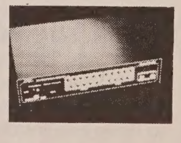

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Nominees for Director, Vice-Director Named

SERA has a slate of nominees for Director and Vice-Director of our seven Districts. Each of the persons named below were nominated by the nominating committee, and unless additional nominations "from the floor" from the Full Membership, these persons will be proclaimed elected and will take office on January 1, 1989 for a 2 year term.

The nominees for SERA Directors and Vice-Directors are as follows:

North Carolina: Ed Stephensen, AB4S, of Cary, for Director, and Danny Hampton, K4ITL of Raleigh for Vice-Director.

West Virginia: Karl Morris, WB8GDY of St. Albans, for Director, and R.T. (Dick) Fowler, N8FMD of Clarksburg for Vice-Director.

South Carolina: Len Bjerken, WB4USY of Sumter for Director and Al Harney, N4EOY of Lexington for Vice-Director.

Tennessee: Gene Giesler, W4TYU of Knoxville for Director, and James Larson, WB4KQQ of Memphis for Vice-Director.

See Page 36 For Nomination Form for Directors and Vice-Directors.

Georgia: Dave Shiplett, WL7ACY of Perry for Director, and Jim Abercrombie, Jr., N4JA of Augusta, for Vice-Director.

Virginia: Wally Burkette, WA4KXV of Virginia Beach, for Director, and Don Williams, WA4K of Bluefield, for Vice-Director.

East Kentucky: Terry Estes, WB4ASZ of Winchester, as Director. There will not be a nomination for Vice-Director at this time.

Nominations from the Floor

Full SERA Members are reminded again that nominations may be made "from the floor". See separate story and official nomination form in this issue for details.

Full Membership Finals For Year

SERA Full (Repeater) Memberships held up and came within 4 repeater members of tying the 1987 record total (as of this writing). SERA ended the counting with 528 Full Member repeaters in the 7 states, plus 5 in Alabama. This represents 48.5% of teh 1,079 repeaters as Full Members in SERA territory.

As usual, North Carolina led the percentage with a high 67.1% membership. Next was South Carolina with 55.4% and Virginia with 52.4%. The remaining states were under 50% membership.

In total numbers of Full Member repeaters, North Carolina again led with 145, followed by Georgia with an even 100, and Virginia with a close 99.

The largest State as far as numbers of repeaters is Tennessee with 232, followed by Georgia with 229. North Carolina is third with 216 and Virginia fourth with 189.

West Virginia has 91, South Carolina 83 and East Kentucky 39.

The February 1989 Repeater Journal will recount repeaters in the seven states and compare growth by state as we have done each year.

See the Chart below, which may be updated at a later date than this story is written for the final tallys of all the member states in Full Membership.

Repeater owners are reminded that Full Memberships all expire on December 31, 1988. Each are urged to return their data sheets which will be mailed in December. (See separate story).

SERA FULL MEMBERSHIP-1983 TO DATE Correct Thru #336, Oct. 19, 1988.

STATE	FINAL 1983	FINAL 1984	FINAL 1985	FINAL 1986	FINAL 1987	FINAL 1988	Advcd 1989	1988 MBR %	STATE RPTRS	#1988 APPL
N.C.	100	83	149	147	123	145	0	57.1	216	96
S.C.	24	35	56	43	44	46	0	55.4	83	33
VA.*	58	60	92	88	98	99	0	52.4	189	56
W.VA	28	21	41	40	51	39	0	42.9	91	23
TENN.	47	58	85	63	80	79	0	34.1	232	51
GA.**	9	18	109	125	110	100	0	42.7	229	59
E.KY***	1	4	18	21	19	15	0	38.5	39	14
ALA****	1	1	4	67	7	5	0	--	--	2
FLA****	0	0	0	4	0	0	0	--	--	0
MISS	--	--	--	--	--	3	0	--	--	2
TOTALS	268	280	554	598	532	531	0	48.5	1079	336

* Total Virginia & West Virginia listings also innclude Northern Virginia and the panhandle of W.Va (T-MARC Coord. Territory.)

** Georgia assumed SERA District Status in 3rd Quarter of 1985.

*** Eastern Kentucky assumed SERA District Status in Mid 1985.

****Alabama, Missippi and Florida are Not SERA Districts and are not counted in the final percentages.

SERA Doesn't Coordinate Digipeaters

Our Directors still get a hard time from some Amateurs who want them to coordinate their Digipeater. SERA coordination policies explain that SERA does not coordinate this mode of operation, unless the "digi" is utilizing a split input and output on a repeater pair.

In this case, the frequency is coordinated for a repeater which has packet use.

Most States now have Digital societies who have far more experience in coordinating packet long range and linking systems and they are in the ones usually who work out these systems.

SERA only allots recommended frequencies for digital use. Due to the unusual characteristics of digipeaters (operating on simplex, anyone being capable of being a digipeater) it should be up to individual digital operators to work with their State Digital Society in setting up new digipeaters.

Digipeater Listings

A reminder, for digipeater listings in the Repeater Journal index. A digipeater must be an unattended system, used only for the purpose of repeating signals originated elsewhere to be listed in the Directory. A person allowing his home system to occasionally act as a digipeater, while most of his operation is his own originated packet does not qualify as one to be listed in the Digipeater section of the index.

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PROGRAMMED SCAN AND MEMORY SCAN
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DTMF KEYBOARD BUILT-IN (IC-32AT)
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MONITOR THE REPEATER INPUT FREQUENCY INSTANTLY
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When you want to change the frequency or the memory channel fast, use the Dial Select function. Dial Select changes the 1MHz, 100kHz digit or the memory channel directly. It's so easy to operate: just push one button!

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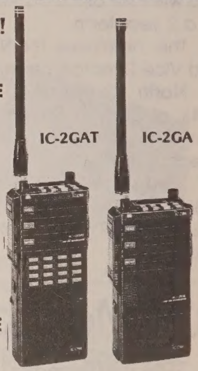

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Forty Years Ago?

What Was It Like?

— by Bob Darke, W4MHF

Cover Story

Why Forty Years?

Next year, the Mecklenburg Amateur Radio Society, Incorported, of Charlotte will celebrate its Fortieth Anniversary. Formed by a split with the original Charlotte Amateur Radio Club, its Certificate of Incorporation of the Society was executed on March 25, 1949 by Earl Gluck, W4CQ, R.E. Dawson, Jr., Fred H. Hasty, W4NZC, Bernard Walker, W4GIS, A.L. Blalock, W4CAY, J.C. Geaslen, W4DLX, Avery Kimbril, Jim MacLeod, W4NHV, Clark Prather, Archie Scroggs, W4CXS, W.J. Wortman, W4CYB, C.A. McKnight, W4CFL and S.S. McNinch, Jr., W4FUA.

> *"Hamfests are favorite places for old friends to have an "eye-ball" QSO and get together for old times sake.*

Now, we know that hamfests are favorite places for old friends to have an "eye-ball" QSO and to get together for old times sake. Sure enough, at the 1988 Charlotte Hamfest, we caught the two surviving charter members of the Mecklenburg Amateur Radio Society greeting each other - W.J. "Buck" Wortman, W4CYB, 80, a retired vice president of Duke Power Co. living in Charlotte, and ARRL Section Communications Manager for North Carolina from 1936 through WWII; and James B. "Jim" MacLeod, W4NHV, 69, a retired Presbyterian minister, living in Lumberton, NC, and currently very active as Emergency Coordinator for Robeson County. Surely, they, if anyone, could tell what amateur radio was like forty years ago!

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W.J. "Buck" Wortman, W4CYB, one of two surviving charter members of the (Charlotte) Mecklenburg ARS relaxes in his recreation room shack in Charlotte, N.C. His "shack" of today is in great contrast from that of 40 years ago. (Photo by: Bob Darke, W4MHF)

Buck Wortman

We visited Buck Wortman in his recreation room ham shack and asked him, "What was ham radio like in those days?" He reminisced. "Everything was vacuum tubes. A few of us made oscillators that we could vary the frequency of, but the stability left a bit to be desired. Everything was crystal controlled - I still have about 150 cyrstals around. Power was worshipped by two or three of the people in town (Charlotte). Beams were very popular - particular on 20 meters. Two people here in town were 'well known' for their powerful signals and their beams. Actually there was a third (It wasn't me, by the way). These fellows ran well beyond legal power."

Buck continued. "There was more of a camaraderie. You helped somebody else. You didn't mind going out and helping somebody put their station together or sit down with them and work out problems to help them build stuff. In those days, we built everything - except the receiver. Most of us had commercial receivers."

Receivers

"Commercial receivers actually were available in the Thirties and some of them were pretty good. We worked with our own - regnerative receivers and on CW, some of them worked all right. The old National SW3 was a very popular receiver. Then along came the RME-69, the HRO and the Super-Pro. The transceivers came along well after the War. -- I have an HRO sitting over there on the table right now that in 1947, if you had 40 million dollars, you couldn't have bought a better receiver. And at that time, you had Hammerlund and National and Hallicrafters - they were the popular receivers."

> *We built everything! Transmitters, receivers, power supplies and antennas.*

Transmitters

For transmitters, "we built everything. We had crystal oscillators, buffer amplifiers and output - everybody was sold on push-pull output until Elimac began to make big tubes and then they started using single-ended amplifiers, running class C. I still have Eimac 304TH's, 250TH's, 100TH's in my 'junk pile' right now. We built massive stuff, too. Six-foot racks were the thing. And power supplies - 3000 volts at half an amp - it'd break your back - must've weighed 150 pounds."

Antennas

"There was a lot of experimenting with antennas, too. One of the best antennas I ever had, I made out of a piece of copper bus bar which was a round 3/4 inch copper rod - there was a lot of that on the system back then" (Remember, Buck worked for Duck Power Co.). "I used a drip cap off of a 66,000 volt insulator with a base plate. I

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WHAT WAS IT LIKE?

James B. "Jim MacLeod, W4NHV sits in his shack in Lumberton, N.C. Jim is one of the two surviving charter members of the Mecklenburg ARS, having helped execute the Certificate of Incorporation on March 25, 1949. (Photo by: Bob Darke, W3MHF)

mounted this antenna, which was 33 feet long, as a vertical on top of my garage, guyed it, and fed it with 600 ohm open line. I guarantee you, that was one of the best DX antennas I ever had!"

ARRL

"Yes, I was Section Communications Manager from about 1936 up through World War II until about 1948 - of course we were shut down during the War. We used to handle a lot of traffic - I used to report the traffic handled every month. We had some good traffic men - Tom Brandon, W4CEN, W4DQ, Fred Robinson, and so on. They would send reports into me as to how many messages they handled each month - 100 or 125 a month. It was pretty much an individual effort - the club didn't participate in any of the federal activities except in Field Day.

Activity

Concerning activity on the bands, Buck had the following random thoughts. "There was more interest in CW than there is now. I would say, based on experience, that phone became very, very popular somewhere in the mid-60's - a whole lot more so than it was back around WWII. We did have some two-meter work. It was done with super-regenerative receivers, and we played around with beam antennas. About all we could work from here on 2 meters was Concord and Gastonia with a 4 or 5 element Yagi. As for working through a repeater for 90 or 100 miles, as we do now -- nothing doing. Six meters became very, very popular about that time, though. But television came along about '49 and any one trying to work on six-meters ended up in trouble - the TV sets had 'wide open front ends' then."

The Club

About the club, "We had regular meetings. But it was a club where we sat around and talked about 'what have you built?', 'what have you got new?', and 'what's your experience with that tri-tet oscillator?' or 'how about the stability of that crystal - did it crawl on you?' for example. There was a lot moe technical interchange than there is now. You had to learn from your fellow man - you couldn't go to the corner store and buy a ready made piece. You had to know something about radio - you had to know how to place the pan under your grid leak!"

> *My first mobile was on 10 Meters in a 1948 Dodge. We worked Great Britain driving along the Atlantic Coast.*

Mobile

How about mobile operation? "Well, the first mobile unit I had, I put on a 1948 Dodge. It was a 10 meter unit and I used a Gonset converter feeding into the broadcast band AM automobile radio. One of the greatest kicks I got in my life in those days, was riding along the Atlantic coast in Florida, and working a couple of G's - in Great Britain. We used a discarded police radio with an 807 in the output. At that time the police radio's were working somewhere in the forty megaherz band and we modified it down to the 28 mHz - 10 meter - range. (Shades of the surplus market!). There wasn't any 'organized' mobile operation, nor were there any repeaters. But along in the early fifties, some two-way radios used by the trucking companies and police in the 158 to 162 mHz range became available, and the amateurs acquired them to use on two meters."

Jim MacLeod

The story we got when we visited Jim MacLeod at his home in Lumberton was much the same, but it had a different slant to it. While Buck had gotten his first license in 1932 and had 17 years of ham experience when he helped start the club in 1949, Jim did not become licensed until 1948. But this was in time to become active in the formation of the Mecklenburg Amateur Radio Society along with "Buck" and Pete McKnight (W4CFL) and Sam McNinch (W4FUA) who were the prime movers", according to Jim.

> *I could hear Neal's code across the street - He like it loud!*

Thus, when the club was started, Jim had just become licensed "through the efforts of Pete McKnight and Buck. Pete took an awful lot of time with me on the code. Then, it was 'one on one' and if you got the code, somebody helped you get it. Buck helped me more with the theory. I had been

Continued on Page 15

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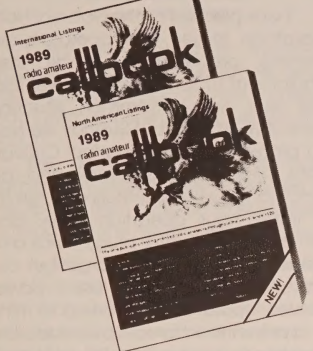

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What Was It Like - 40 Years Ago!

Continued from Page 14

interested in it (ham radio) by a boy living across the street - Neal Jennings. Neal had been a ham of long standing. Then, late at night when I would go to bed, I could hear his code clear across the street - he liked it loud! So I got interested then. But as far as actually getting my ticket, it was Pete McKnight and Buck who brought me along."

"Yes, at that time, I was pastor of the Sharon Presbyterian Church, in Charlotte, across the street from where South Park is now. It was out in the country then. Looking at amateur radio at that time, it was infatuation, love, excitement, - it was something brand new to me. I enjoyed it tremendously. And I enjoyed the club. The club that was started, the Mecklenburg Amatuer Radio Society, got along better than any club I've been in since. There was an awful lot of jocular 'nipping' at each other'. But it was all in fun and love. Nobody was trying to stick a knife in anybody's back. There was no bickering as such. There was a wide variety of opinion, but it was homogeneous. Everybody enjoyed it."

A New Club

Jim has recently been involved in the formation of a new club in Lumberton. "We really don't think of ourselves as a club as such because we do not have regular meetings except our annual meeting. We do not have social functions and we just exist for the purpose of keeping the repeaters going. At least that was the original intention. So we organized, and affiliated with ARRL, under those conditions. It became apparent that more effort was needed. So we incorporated as a non-profit corporation. Then we felt that we could best serve our purposes if we would become a tax-exempt corporation, with a letter of determination from the IRS. This would enable contributors to our purposes to write it off on their tax return as a deduction. With the help of a lawyer from Raleigh who knew the tax structure and knew tax law, our application has been completed and filed with the IRS. We are waiting now for it to say 'yes' or 'no'."

The Old Club

'How does the original experience back in 1949 compare with your problems now?" we asked Jim. He answered "They are two different apples. The experience back in Charlotte had an aura of rosiness to me, because I was brand new to amateur radio. I was awed by the knowledge and the brilliance of the other members who knew so much about amateur radio - I was flabbergasted. I was honored and humbled to be included in the organization and proud to be a member of the club."

"As far as ARES (AREC) at that time, I had never heard of it. It was only after I had left the Mecklenburg Amateur Radio Society and had gone to North Wilkesboro that I'd even heard of ARES. But while I was there, they made me EC (Emergency Coordinator) of the four counties up in that part of the state. I didn't know what I was doing, I didn't know anything about emergency operation. It was all new to me, and fortunately I didn't have anything to do, as far as an emergency was concerned."

"Since then, coming down to the present and comparing it with my Mecklenburg experience, the gears have shifted and ground in a different direction entirely for me. I never will again have the feeling toward a ham club that I had toward the one in Charlotte. It was just such a rewarding experience. I don't ever expect to be a member of a club that was like that. It was so enjoyable, and helpful, and meaningful to me."

Personal Emphasis

"This present one is meaningful, but in a different way. I very strongly feel that it is in the realm of emergency communications that amateur radio pays its dues. I feel we cannot justify the amount of frequency spectrum we have, if we don't do something to pay the public in return. I think this is where amateur radio can prove its worth - in emergency communications. My emphasis at present, therefore, is in this direction. I'm not a good operator any longer - I can't hear well enough. But I still feel that maybe I've got a little something to offer amateur radio - if in no other direction than in the organization of things. That's why I'm so involved in this EOC down here, and in rewriting the Emergency Plan for the county - the portion of it dealing with communication. We have a good relationship with the county administration and personnel. We have a good relationship with the emergency services. We feel that amateur radio in this county is on a better footing than it ever has been with regard to emergency communications."

> *"I strongly feel that it is in the realm of emergency communications that Amateur Radio pays its dues."*

Comparisons

Jim confirmed the fact that club meetings in the 'old' days were mostly technical rather than social or commercial and an early hamfest was mostly technical discussions without much of a flea market or any dealers. "We have grown out of that, unfortunately," he continued. "Japan has come in with its sets, and if you can't go down to the corner store and buy one, bring it home, plug it in and have it work, you're lost. The instructions (requirements) for licensing are not technical to any great extent. You don't have to draw these schematics. You don't have to know how the thing 'works' to get your license. I regret

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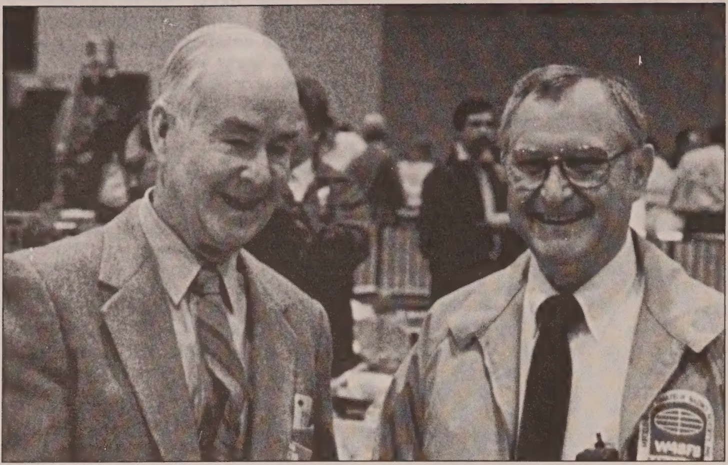

What Was It Like 40 Years Ago! Buck Wortman, W4CYB and Jim MacLeod, W4NHV met at the last Charlotte Hamfest to share with us their story, as the two surviving Charter Members of the Mecklenburg ARS (Charlotte, N.C.) - photo ctsy: Robert Dark, W4MMF.

that, because I think in a way, if it is not the cause, it certainly goes hand in glove with what we have been griping about on these emergency nets (ref. QRM on 20 meters during hurricane Gilbert)."

Attitudes

Referring to changes in attitudes, he goes on to say "Perhaps I can illustrate this with something that went on at Shelby (hamfest). I went out to lunch with a traffic man and a packet man and an ARES (ARRL) man. I quickly discerned what I had not been aware of before. That, is the terrible friction that exists between the packet operator and the brass-pounding traffic man. The traffic 'count' is down drastically and they are blaming packet for it - stealing traffic from them and handling it through packet channels rather than over the traffic system. They don't like it. They are resorting to generating traffic among themselves, just to get the count up. That seems rather artificial. It would be different if it were a matter of 'training'."

"I feel this (antagonism) has made an unfortunate inroad into amateur radio. I contend that there is room for every mode of communication - the brass-pounder and the packet operator. But the brass-pounder is scared to death that packet is not only going to steal his traffic, but is going to make him obsolete. These were the fears that were voiced. The traffic man said 'Packet radio is not amateur radio. Packet radio is commercial radio. It is machine generated, machine sent, machine received and machine copied. If that isn't commercial radio, I don't know what is.' What I intended to point out was not the veracity of his statement, but the feeling that exists. This is unfortunate. Amateur radio, if it becomes so splintered that we have one group antagonistic toward another group, then our whole hobby is going to suffer. Not only the hobby as a hobby, but the hobby as a public service arm."

The Original Purpose

Significantly, Jim's recollection of the formation of the Mecklenburg club emphasizes the basis of his concerns expressed above. "When we first organized, we did not incorporate. What we were trying to do was something that was understood tacitly among us. We did set down some by-laws but what we were really doing was out of a common purpose - for us to have a club that would carry on the business of amateur radio, which included instruction or help, or public service. So far as I can recall, we did not have a single party or entertainment or ladies night or anything like that. We met in Sam McNinch's spacious workshop. Before I left, we acquired a truck to outfit for emergency operation. Sam McNinch put a lot into the club and there was a lot of individual effort. There was a camaraderie - a feeling of oneness."

73

And so it goes. Recollections, reminiscing and even some rambling plus a bit of philosophy from our venerable veterans linking the past with the future. Perhaps we can understand a bit of what it was like forty years ago, and benefit from it for what is to come.

(Editor's Note: Many thanks to Bob Darke for gathering information and writing this outstanding piece. This is his first since several years ago when he wrote about Packet. Let's hope he will write more for us readers of the Journal.)

Color Pictures Always Needed

We still need color slides or color photographs of Amateur activities. Something big going on in your area. Get us a color picture or slide, we may be able to use it on a future Repeater Journal Cover.

Two Pronged Solution

— by Gil Frey, K4JST
EC Charles City County, VA

I was pleased at the Colonial Half-Marathon to see that operators are coming prepared to install their equipment in someone else's vehicle. This was not a common situation several years ago, but Sunday we had no problemm equipping four College vans plus a pickup truck and an ambulance with operators and rigs for a three hour operation (only one vehicle had a lighter plug). I was also pleased to see several large gel cell batteries set up with fused power cables. Operators are starting to think and plan ahead for safe power sources for extended operations. The next area that needs some attention is the use of a standardized power plug for all VHF and UHF equipment.

Some years ago, the League published a recommendation for a standard plug for ARES use. The plugs are the two pronged "Jones" type polarized plug. They are not expensive (less than $2 retail) and are available from sources such as Radio Shack (RS 274-201 and 274-202). The plug has one broad and one narrow blade. The industry standard is for the broadest blade to be negative (very important that all use the same polarity). Place a male plug somewhere in the power lead of each and every piece of gear that you can possibly run off a 12 volt battery (upper current limit is 7.5 amps so most 25 to 45 watt rigs will run just fine). One nameless ham at the marathon had the right idea but the wrong gender plug on his rig. The female goes nearest the power source (so you can't short the prongs).

Why go to all this trouble? You never know who will have an extra battery just when you need it or who has a spare rig in the trunk just when yours dies on the job. If all operators are using the same power connectors, resources can be swapped easily. You will also find it is a convenience just for your own personal equipment if you can plug any rig into an AC supply, a lighter plug adapter or the power cord attached to a large storage battery you keep out in the garage. The trick is to make up your mind to put a male plug on every piece of equipment you own. That kind of forces you to put a female in all your various power leads. Just do it!

10 Year-Old Extra Class!

Early Steps through The Testing Process

— by Ray Adams, N4BAQ
Treasurer, WCARS VEC

10-Year-Old Sandi Saunders of McDonald, Tn. works newly fund friends on 80-meters, at her fifth grade classroom "ham station" at the A.W. Spalding Elementary School. Sandi passed her Extra Class exam in September and at press time was waiting to change her call from N4QLZ to a new AB4?? call. Is this young lady the youngest Extra Class operator in the nation? She just may well be! (Photo ctsy: Ruth Saunders, N4NVX)

I first got started in the VEC program as contact person for what has turned out to be this VECs busiest team, perhaps one of the busiest in the nation.

We normally test at the four hamfests in middle East Tennessee in the Spring, then drop off to each third Saturday for the remainder of the year.

A few days before the Knoxville hamfest, last May, I had told my wife, Estle, that we had a girl, not yet 9-years-old, aspiring to become a Technician class. She had preregistered with me on the basis of a photocopy of a form 610 signed by Nels M. Angelin, KA4NOP (now AB4HL) and Wilfred J. Adam, KE4QS, the original of which had been forwarded to Gettsburg to generate her Novice class license.

Estle's curiosity caused her to ask how she had fared when I came in Saturday afternoon following the test session and browsing among the goodies afterward.

"Don't know, she didn't show today - I guess she will be there tomorrow," I had said.

When you are receiving preregistrations for testing at a two day hamfest, there is no way to determine for which day the applicant is registering, or what element(s) they may intend to attempt to pass with the "modern" form 610.

We had no way of knowing that her Novice class license (KC4AJO) had been issued May 19 and was in the mail to her when about 9:30 Sunday morning on May 24th, Ruth Sanders helped her daughter Sandi find the exam room.

We tested her on the basis of an FCC action pending for which we would have to wait the results before processing the paperwork in the case of success.

Sandi was so physically small I felt protective toward her. I asked Ruth if she was going to wait in the test room until Sandi came back or what was the deal.

"Oh no, we (meaning Ruth and husband Dean) have a table in the flea market." "She can find us easily enough."

Others in the room were surprised that it was Sandi and not Ruth who was taking the test!

Being far from the last to finish, Sandi was waiting for me to get to her paper for grading when someone in the room struck up a conversation with the extroverted personality that proved to be like a breath of fresh air, asking how she thought she had one on the test.

"I don't know. . . You have a good idea." "I might have passed. . . I might have gotten them all right," Sandi said.

About the time she made the statement, I laid the perforated grading overlay over her answer sheet and began scolding her for not leaving me anything to mark wrong! It was in fact, a perfect paper.

These aren't totally unheard of, but neither are they run of the mill. Needless to say, you remember the little lady who became N4QLZ because of the session!

The rest is history! At the Atlanta hamfest on July 12, 1987 in front of ARRL/VEC examiners she passed Element 3b (General Class written) and at the Gainsville, GA hamfest on September 27, 1987 in front of General Alabama VEC (CAVEC) examiners she passed Element 1b (13 WPM) to in fact become General Class which was dated by Gettysburg October 27, 1987!

She was not satisfied even at that point. On March 6, 1988, testing in front of the Cleveland, TN VE team of WCARS/VEC, she made it through Element 4a to become Advanced class, and came in on 75 meters to tell me of her accomplishments.

The whole gang extended the congratulations that had been so deservedly earned. That permanent license was dated March 29, 1988, but wait, this little thing won't quit! At the 1988 Atlanta, GA hamfest on July 10, 1988, again in front of CAVEC examiners she passed element 4b (Extra Class written) and on September 11, 1988, back in her own backyard at Cleveland, TN with WCARS/VEC examiners, she capped the stack with success on Element 1c (20 WPM) to become what I will advance to you to be America's youngest Extra Class Amateur Operator, earning the privileges at ten years, three months and 14 days of age.

The date of the permanent license itself is pending as of this writing, however the documentation justifying its issuance was postmarked to the Gettysburg licensing bureau September 14, 1988. On the very night

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"Railroaded"

by — Ted Wolfe, WD4KHL

Back in 1968 when I worked for commercial television station WTWO in Terre Haute, Indiana, as a newsman I often monitored several public service frequencies even at home. The station's studios and transmitter were about 15 miles south of Terre Haute just over the Vigo County line in the next county (for tax purposes, I was told).

It was the only place I ever worked, or have even heard of, where "I've been railroaded" was accepted as a legitimate reply to a police or fire department dispatcher.

The reason for that was that at the time Terre Haute was served by about six railroads and most of them had yards within the city. That many railroads meant a lot of grade crossings as there were no overpasses or underpasses such as we have here in the mountains. A long freight train could cause long delays. Even more delays for emergency vehicles could result from a non-moving train blocking a series of crossings.

When a dispatched unit called back with "I've been railroaded" it meant the unit was blocked at a crossing and the dispatcher had better send another unit to the scene via an alternate route.

If you have any unusual tale from your monitoring of local public service frequencies where you live, let me hear about it. It could be the source of a small article running, as this one does, about four or five paragraphs long. Write: Ted Wolfe, WD4KHL, PO Box 133, Cabin Creek, WV 25035.

Hamfest Calendar Is Largest Ever!!

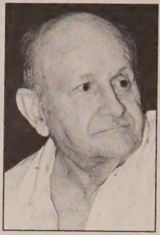
This issue of the Repeater Journal contains the complete 1989 Hamfest Calendar as we have it on our data base. Many listings are unconfirmed, and are identified with an asterisk as not confirmed. Shows are generally based on the same date as last year.

Hamfest coordinators are urged to get their 1989 show dates to the Journal Editor as soon as possible to be repeated in the February issue.

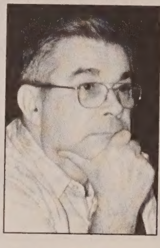
Numerous roving flea market participants across the country subscribe to the Repeater Journal for the purpose of keeping up with show schedules in the Southeast.

Deadline for corrections, additions or deletions to the Hamfest Calendar for the February 1989 Repeater Journal is January 1, 1989.

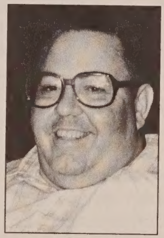
Train To Memphis



Jim Larson
V-Dir. Tenn.



Len Bjerken
S.C. Director



Wally Burkette
Dir. Virginia

When SERA's Virginia Director, Wally Burkett, WA4KXV wants to travel to see the Vice-Director of Tennessee, Jim Larson, WB4KQQ, he has to travel 800 miles.

The same holds true for Len Bjerken, WB4USY, Director of South Carolina.

Although the three States touch, one never thinks about such a distance from the Eastern end of South Carolina, or Virginia to the West end of Tennessee.

The three got their heads together and began measuring just how far they lived apart at the past August Board of Directors meeting.

It was agreed that these three had travelled the farthest, some 395 miles each to get to the "centrally" located meeting place in Knoxville, Tn.

Wally lives at Virginia Beach, while Len lives at Sumter, South Carolina, not too far from the coast. Jim lives far on the other side of the long state of Tennessee, in Memphis.

When one leaves North Carolina, going into Tennessee on Interstate 40 and the first Tennessee milepost reads 485, you know you're going to be in the "Volunteer" state for some time.

To put in perspective the distance from Knoxville to Memphis, Knoxville is also about the same distance from Detroit, Mi., Jacksonville, Fl., or Jackson, Miss.

SANDRA KAY SAUNDERS, *from Page 17*

of the test session the call "N4BAQ this is N4QLZ" was again heard on 3.980 Mhz - and there she was to tell me of her accomplishments that day - and the regulations say a Volunteer Examiner can't be paid for their services! She has made more than one feel inadequate at more than one time - but then who would not be proud of this accomplishments at any age? Most certainly I was.

Dean says he is now convinced that the success in the exam room is not in any way related to the VEC involved. Thanks, Dean, we needed that: it was designed to work that way, and we appreciate your saying it does.

During a conversation with the FCC licensing bureau at Gettysburg, I inquired as to the age of the youngest holder of an Extra Class operator's license. Their computer program was not designed to readily answer that particular question, but the supervisor to whom I was talking agreed with me that if there is a younger Extra Class in America, WILL YOU PLEASE IDENTIFY YOURSELF?

With Estle and I having raised two daughters ourselves and knowing first-hand the pride of parenthood, I'm sure the greatest pride of watching this happen belongs to Dean F. Saunders, AA4XL and wife Ruth A. Saunders, N4NVX, but may the rest of us be permitted to join in to some small degree?

I'm proud to have been privileged to have had a part in the proceedings that cause me to believe I am speaking on behalf of the general population of the amateur operators of America when I extend the most sincere congratulations which my limited vocabulary will allow me to generate to

SANDRA KAY SAUNDERS, AB4KS

(License Issued Oct. 4, 1988)

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THE SERA OFFICIAL REPEATER INDEX

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Repeater owners are reminded to contact their local Frequency Coordinator (Director) for assistance in coordination, changes in their listings, or any other requirements.

DISTRIBUTION OF REPEATERS BY FREQUENCY

The By-City Index Appears On Following Pages

2 METERS

7.43 /4.93	M	LYNCHBURG	VA
4.51 /5.11	TUN	AUGUSTA	GA
	VTA	DECATUR	GA
	RXG	SAURATOWN MT	NC
	JMT	CONWAY	SC
	IJL	KNOXVILLE	TN
	YPE	RICHMOND	VA
	MCR	SALT ROCK	WV
4.53 /5.13	SEX	NEWNAN	GA
	VLP	VALDOSTA/TIFTON	GA
	YNF	AHOSKIE	NC
	CS	GREENWOOD/HODGES	SC
	OAK	LAFOLLETTE	TN
	VL	GALAX/LKOUT MT	VA
	FHE	BUCKHANNON	WV
4.55 /5.15	IWZ	PIKEVILLE	EKY
	MM	ALBANY	GA
	AQL	ATLANTA	GA
	LI	MILLEDGEVILLE	GA
	UDS	MORENTN/HI PK	NC
	CVM	RANDLEMAN/GBO	NC
	RJC	DECATUR-PONE KB	TN
	HCK	FRANKLIN	TN
	JE	JAMESTOWN	TN
	JXI	MEMPHIS	TN
	ARO	PETERSBURG	VA
	DBN	MARMET/BEE MT	WV
	FSE	MARTINSBURG	WV
4.57 /5.17	JBF	COOLIDGE	GA
	DIW	JONESBORO	GA
	ZQB	NEWTON/ANDSN MT	NC
	EKK	OXFORD	NC
	V	LOUDON	TN
	LHO	SMYRNA	TN
	DKL	BOLT/BOLT MT	WV
4.59 /5.19	IQT	BIRMINGHAM(AL)	GA
	GIS	CARTERSVILLE	GA
	ULJ	PINE MT/HAMILTON	GA
	BVW	MT MITCHELL	NC
	OTT	CARTHAGE	TN
	XX	JASPER	TN
	B	RICHMOND	VA
	JGY	WHEELING	WV
4.61 /5.21	U	DEAN	EKY
	PSZ	TYRONE	GA
	ITL	TRENTON	NC
	NEP	GASTON	SC
	BBB	KNOXVILLE	TN
	MS	KILMARNOCK	VA
	FEQ	HUNTINGTON	WV
4.63 /5.23	PPM	MIDDLESBORO	EKY
	COL	AUGUSTA/GRNS CUT	GA
	JEH	CONYERS	GA
	UJ	DALTON	GA
	COL	WAYNESBORO	GA
	BFB	CHARLOTTE	NC
	RA	LAVERNE	TN
	DBB	BEDFD/APL ORCH	VA
	UMI	YORKTOWN	VA
	K	LOGAN/BLAIR MT	WV
4.65 /5.25	BLQ	CLAYTON	GA
	BZJ	DALTON	GA
	KQK	FOREST PARK	GA
	AZM	GREENSBORO/GLD H	NC
	URP	CHARLESTON	SC
	DRL	MEM/FISHERVILLE	TN
4.67 /5.27	PN	WALESKA/PNLGMT	GA
	KNI	HENDSVL/BERWLW M	NC
	BEA	RALEIGH	NC
	WZK	HENDERSONVILLE	TN
	CJX	SEV/SHIELDS MT	TN
	JCE	MANASSAS	VA
	VR	WYTHEVILLE	VA
	OG	CRAIGSVILLE	WV
4.69 /5.29	ICN	PRESTONSBURG	EKY
	DRQ	ATLANTA	GA
	BFB	CHARLOTTE	NC
	ACP	MAYODAN	NC
	PPD	SHALLOTTE	NC
	VCM	CHATTANOOGA	TN
	SQC	HOLSTON MT/E TN	TN
	FFM	NASHVILLE	TN
	NDH	CHESAPEAKE	VA
	FMD	CHARLESTON	WV
4.71 /5.31	CEK	COLUMBUS	GA
	JDR	STOCKBRIDGE	GA
	ITL	ROANOKE RAPIDS	NC
	RFA	ROCK HILL	SC
	GRC	ATHENS	TN
	SC	JACKSON	TN
	FSC	ALEXANDRIA	VA
	BZS	LAYLAND/MANN MT	WV
4.73 /5.33	OGE	JONESBORO	GA
	J	MT AIRY/TRNR MT	NC
	DFP	BAMBERG	SC
	GMT	CUMBERLAND CTY	TN
	TAG	HICKORY VALLEY	TN
	TEM	KNOXVILLE	TN
	QQI	FARMVILLE	VA
	VNQ	PARSONS	WV
	FR	WILLIAMSON	WV
4.75 /5.35	R	HARLAN	EKY
	DOC	ATLANTA	GA
	FGQ	ROSSVILLE	GA
	AOS	CHARLOTTE	NC
	DAN	GREENVILLE	NC
	Y	HUMBOLDT	TN
	JYD	NASHVILLE	TN
	AZJ	BLAND	VA
	AQD	FALLS CHURCH	VA
4.77 /5.37	UA	AUGUSTA	GA
	ACH	COLUMBUS-RTTY	GA
	IZF	JASPER	GA
	AGN	N. WILKESBORO	NC
	GRC	KNOXVILLE	TN
	OG	NASHVILLE	TN
	IMI	GLOUCESTER	VA
	FWL	BECKLEY/EOC	WV
4.79 /5.39	HYB	GRIFFIN	GA
	NJ	MONROE/UCARS	NC
	TZ	CHATTANOOGA	TN
	EPC	GREENEVILLE	TN
	DOR	HERMITAGE	TN
	VM	STANTONVILLE	TN
	ZIV	GALAX	VA
	EOM	WESTON	WV
4.81 /5.41	PME	ATLANTA/BELL	GA
	PXX	BRUNSWICK	GA
	XO	HIGH POINT	NC
	KNU	WILLIAMSTON	NC
	TUO	GREENEVILLE	TN
	VIP	MEMPHIS	TN
	FHE	BUCKHANNON	WV
	SLI	LIBERTY	WV
4.83 /5.43	LCI	ATLANTA/SWEAT MT	GA
	VBA	LINEVILLE(AL)	GA
	OLL	MACON	GA
	ITL	SPARTA/GREEN MT	NC
	LB	COLUMBIA	SC
	UCE	COOKEVILLE	TN
	IUA	KNOXVILLE	TN
	SQT	RICHMOND	VA
	WHQ	CHARLESTON	WV
	LG	MORGANTOWN	WV
4.85 /5.45	TX	LEXINGTON	EKY
	BOC	STONE MT	GA
	PLY	CROWDERS MT	NC
	WTX	DURHAM	NC
	GRW	NEWPORT	NC
	LWY	ALCOLU	SC
	SIR	BENTON	TN
	E	SPRING HILL	TN
	SXZ	WELCH	WV
4.87 /5.47	CLA	ATLANTA/SWEAT MT	GA
	GIC	SAURATOWN MT	NC
	OXE	INMAN	SC
	GBI	KNOXVILLE	TN
	OMO	MOUNTAIN CITY	TN
	ARK	NASHVILLE	TN
	EFJ	ARLINGTON	VA
	FG	KINGSTON/LICK KB	WV
4.89 /5.49	JA	AUGUSTA	GA
	RWS	CORDELE	GA
	QPL	MARIETTA	GA
	ZCZ	FRANKLIN	NC
	CBI	RALEIGH	NC
	ABW	RKY RDG/WALLACE	SC
	KKO	MCMINVL/SHT MT	TN
	KOG	MEMPHIS	TN
	MOP	BLUEFIELD	VA
	OHX	NEWPORT NEWS	VA
	MOP	BLUEFIELD	WV
6.895/6.295	T	HARTWELL	GA
6.01 /6.61	MLE	COLUMBUS	GA
	BDP	WARNER ROBINS	GA
	SNI	GREENSBORO	NC
	JMS	NEW BERN	NC
	GY	CHELSEA	SC
	NYK	GRNVLE/CSRS HD	SC
	JMT	MYRTLE BEACH	SC
	CMY	CHATTANOOGA	TN
	PCD	NASHVILLE	TN
	LSP	BRUMLEY MT	VA
	GSP	CHESAPEAKE	VA
	WWQ	LYNCHBURG	VA
	MZI	GASSAWAY	WV
6.025/6.625	UPE	UNION CITY	GA
	JWP	VIDALIA	GA
	QWK	LAURINBURG	NC
	GBI	KNOXVILLE	TN
	ZQX	MARTIN	TN
	AVW	NEW MARKET	VA
	BZS	FLAT TOP/WINTERP	WV
6.04 /6.64	YZY	PINEVILLE	EKY
	LWT	AUGUSTA	GA
	FWD	CARROLLTON	GA
	GVG	WAYCROSS	GA
	YAO	HENDERSONVILLE	NC
	DW	RALEIGH	NC
	GIC	WINSTON-SALEM	NC
	P	SUMTER	SC
	RX	CROSSVILLE	TN
	KQQ	MEMPHIS	TN
	NTM	NASHVILLE	TN
	WIC	FINCASTLE	VA
	BIW	MARION	VA
	QEY	RICHMOND	VA
	EZR	HUNTINGTON/CHAS	WV
6.055/6.655	NFP	ATLANTA/MARIETTA	GA
	CEB	CONCORD/KANNAP.	NC
	VTX	ELIZABETH CITY	NC
	ABU	BROWNSVILLE	TN
	Z	CHATT/SIGNAL MT	TN
	PDP	ALEXANDRIA	VA
	ISI	ALTAVISTA	VA
6.06 /6.66	BKM	MACON	GA
6.07 /6.67	VHF	HAZARD	EKY
	NSO	GAINESVILLE	GA
	EQL	JESUP	GA
	ZIN	BURLINGTON	NC
	TMT	CHERRY MT	NC
	SJ	HALIFAX	NC
	DKI	BRISTOL	TN
	BGW	LAFOLLETTE/WMT	TN
	NTM	NASHVILLE S.W.	TN
	HZS	BARREN SPRINGS	VA
	NTG	WILLIAMSBURG	VA
	JNU	RAVENSWOOD	WV
6.08 /6.68	IQT	LEEDS(AL)	GA
6.085/6.685	IWL	ADAIRSVILLE	GA
	UWN	FAYETTEVILLE	GA
	NBR	GRIFTON	NC
	O	STATESVILLE	NC
	CO	NEWBERRY	SC
	PIO	LENOIR CITY	TN
	Q	WAVERLY	TN
	JNC	DANTE	VA
	HTA	VIENNA	VA
	FMD	CLARKSBURG	WV
6.10 /6.70	JO	GRAYSON	EKY
	MM	ALBANY	GA
	OOM	JASPER	GA
	DOJ	MILLEDGEVILLE	GA
	NLX	SAVANNAH	GA
	CID	DUNN	NC
	PAX	LANCASTER	SC
	UOT	MANCHESTER	TN
	UFT	MEMPHIS	TN
	YGM	UNION CITY	TN
	WQS	DANVILLE/WHT OAK	VA
	BHH	DUFFLD/POWLL MT	VA
	D	NORFOLK	VA
	XD	STAUNTON	VA
	JNU	RAVENSWOOD	WV
6.115/6.715	ABZ	RINGGOLD	GA
	GGN	MILLERS CREEK	NC
	KDC	SPRING LAKE	NC
	NEP	COLUMBIA	SC
	I	BLACKSBURG	VA
	TXE	STERLING	VA
	GL	SHERRARD	WV
6.13 /6.73	SWF	LOUISA	EKY
	MM	ALBANY	GA
	NC	ATLANTA/SWEAT MT	GA
	TVE	BRUNSWICK	GA
	BWC	RALEIGH	NC
	EXU	SALISBURY	NC
	VNK	WILMINGTON	NC
	FKJ	N. AUGUSTA	SC
	BJY	SIMPSONVILLE	SC
	IOB	KNXVL/ENG MT	TN
	DAZ	MEMPHIS	TN
	WA	WATERTOWN	TN

PLEASE NOTE!

The letters column between the frequency and city indicate suffixes of the repeater callsign.

REPEATERS BY FREQUENCY CONTINUED

	DHO	HAMPTON	VA
	AVZ	ALDERSON	WV
6.145/6.745	BKF	ATHENS	GA
	N	DILLON/PEE DEE	SC
	HF	DYERSBURG	TN
	QOJ	ROANOKE/POOR MT	VA
	FMD	ELK GARDEN	WV
6.16 /6.76	BOC	ATLANTA/STONE MT	GA
	APS	VALDOSTA	GA
	BVW	ASHVL/MT PISGAH	NC
	MSS	GREENSBORO	NC
	S	SWANSBORO	NC
	THL	WILSON	NC
	ILT	CHARLESTON	SC
	PTC	FT JACKSON	SC
	LSP	BRISTOL/HLSTN MT	TN
	YTU	BROWNSVILLE	TN
	POP	NASHVILLE	TN
	TFZ	CHARLOTTESVILLE	VA
	STE	LYNCHBURG	VA
	ZIN	WILLIAMSBURG	VA
	VA	HUNTINGTON	WV
	CUL	MORGANTOWN	WV
	JDH	WHEELING	WV
6.175/6.775	KE	MARIETTA	GA
	OCB	WRENS	GA
	BFB	CHARLOTTE/RTTY	NC
	DHW	ELIZABETHTOWN	NC
	JVO	PULASKI/MUSIC MT	TN
	MUQ	WYTHEVILLE	VA
6.19 /6.79	U	PAINTSVILLE	EKY
	DMK	FOLKSTON	GA
	KOW	MOULTRIE	GA
	SEX	NEWNAN	GA
	VYX	SWAINSBORO	GA
	LZD	CLINTON	NC
	LDK	SAURATOWN MT	NC
	FVV	ANDERSON/SAS MT	SC
	ILT	CHARLESTON	SC
	DSK	CHATTANOOGA	TN
	ABR	JOHNSON CITY	TN
	FZJ	MEMPHIS	TN
	SQE	NASHVILLE	TN
	SD	CHESAPEAKE	VA
	LBL	FAIRFAX	VA
	CFT	OAK HILL	WV
6.205/6.805	NNE	GUTHRIE	EKY
	LT	MILLEDGEVILLE	GA
	EWG	FAYETTEVILLE	NC
	NOQ	GASTONIA	NC
	NNE	GUTHRIE (TN/KY)	TN
	HTI	COVINGTON	VA
7.405/6.805	AQS	CALHOUN	GA
	HCY	MAGGIE VALLEY	NC
6.22 /6.82	MM	ALBANY	GA
	DOC	ATLANTA	GA
	HAO	LYONS	GA
	PZA	ROARING GAP	NC
	GMP	WILMINGTON	NC
	NYK	GRNVLE/PARIS MT	SC
	U	ST. MATTHEWS	SC
	OAH	LAKE CITY	TN
	BS	MEMPHIS	TN
	NCM	WINCHESTER	TN
	RKC	WINCHESTER	VA
	IFS	CHARLESTON	WV
6.235/6.835	OCB	THOMPSON	GA
	QCO	ASHEVILLE	NC
	JXG	NAGS HEAD/BODIE	NC
	IAT	WADESBORO	NC
	DCX	GRUNDY/BIG A MT	VA
	ECM	RICHMOND	VA
7.435/6.835	BPV	HIGH POINT	NC
6.25 /6.85	IXA	PIKEVILLE	EKY
	DVJ	DALLAS	GA
	R	LAGRANGE	GA
	HON	WARNER ROBINS	GA
	CYP	GOLDSBORO	NC
	MDW	HICKORY/BRT. MT	NC
	YFT	REIDSVILLE	NC
	ULH	FLORENCE	SC
	KJH	GTLBG/COVE MTN	TN
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	MG	PORTSMOUTH	VA
	ZBP	STAUNTON	VA
	BO	BECKLEY/FLAT TOP	WV
	L	BUCKHANNON	WV
6.265/6.865	DKY	MADISON	GA
	YF	BIG KNOB/GREY CT	SC
	G	FAYETTEVILLE	TN
7.465/6.865	ZRS	WAXHAW	NC
	MZ	MOUNTAIN LAKE	VA
6.28 /6.88	U	MAYTOWN	EKY
	AGO	COLUMBUS	GA
	BTI	MARIETTA	GA
	NKL	QUITMAN	GA
	HBB	SAVANNAH	GA
	ITL	RALEIGH	NC
	NYR	SHELBY	NC
	AVU	COLUMBIA	SC
	CYZ	BRISTOL	TN
	ETE	MEMPHIS	TN
	PCD	NASHVILLE	TN
	SKH	OAK RIDGE	TN
	CYZ	BRISTOL	VA
	ZBE	RICHMOND	VA
	PDL	SALEM	VA
	CQV	CHARLESTON	WV
6.295/6.895	YFF	MADISON	NC
	KXV	VIRGINIA BEACH	VA
6.30 /6.90	ACN	JASPER(AL)	GA
	SP	FAIRMONT	WV
6.31 /6.91	GFY	MOREHEAD	EKY
	FOW	CLEVELAND/LONG	GA
	HYB	GRIFFIN	GA
	ZGQ	AHOSKIE	NC
	MOE	ASHVL/SPIVEY MT	NC
	YZF	FAYVLLE/CFARS	NC
	IZM	LEXINGTON	NC
	BWZ	WHITE HALL	SC
	MEP	CLEVELAND	TN
	DQU	SAVANNAH	TN
	YXA	SHORT MTN	TN
	AXH	CHASE CITY	VA
	OVC	JONESVILLE	VA
	TUE	MT. LK/BALD KNB	VA
	FMD	TYSONS CORNER	VA
	ULB	MCMECHEN	WV
6.325/6.925	ASI	COVINGTON	GA
	CWZ	ROCK HILL	SC
	TFZ	CHARLOTTESVILLE	VA
	GJG	DANVILLE(DCC)	VA
	OGY	PRINCETON/PIPEST	WV
6.34 /6.94	SN	ASHLAND	EKY
	N	AUGUSTA	GA
	VO	ROME/MT. ALTO	GA
	RVB	WRIGHTSVILLE	GA
	DLH	BURGAW	NC
	BFB	CHARLOTTE	NC
	BFT	DURHAM	NC
	ACY	MANTEO/WANCHESE	NC
	ZAS	MT AIRY-RTTY	NC
	IQQ	GREENVILLE	SC
	GBI	KNOXVILLE	TN
	BN	MEMPHIS	TN
	PCD	NASHVILLE	TN
	UMI	HAMPTON	VA
	ZA	RICHMOND	VA
	QET	ROANOKE	VA
	CSW	NEW MARTINSVILLE	WV
	VKB	SUMMERSVILLE	WV
	JN	WEIRTON	WV
7.54 /6.94	CSW	NEW MARTINSVLLE	WV
6.355/6.955	KIN	PERRY	GA
	PRE	ROCKY TOP MT	GA
	ULA	ROCKINGHAM	NC
	MZ	ONEIDA PEAK/BLF	VA
6.37 /6.97	OD	ATLANTA	GA
	HBB	SAVANNAH	GA
	ZAS	MT AIRY	NC
	JQ	SMITHFIELD	NC
	SZ	ANDERSON	SC
	ISM	FLORENCE	SC
	TRC	KNGSPT/BAYS MT	TN
	MWQ	MCMINNVILLE	TN
	BEZ	MEDINA	TN
	SKH	OAK RIDGE	TN
	FPM	MANASSAS	VA
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	E	LOGAN/WARD RK MT	WV
	CRW	PARKERSBURG	WV
6.385/6.985	I	AUGUSTA	GA
	HHH	ELLIJAY/TALONA M	GA
	TOV	PRESTON	GA
	UUB	ST. MARYS	GA
	OGB	ALBEMARLE	NC
	PVE	MARION	NC
	ESG	MT PLEASANT	SC
	CA	ROANOKE/POOR MT	VA
6.40 /7.00	NNO	ATLANTA	GA
	LDK	HIGH POINT	NC
	FVO	JACKSONVILLE	NC
	YLT	MARION	SC
	YXZ	PICKENS	SC
	FZJ	MEMPHIS	TN
	HMT	SUFFOLK	VA
	GDY	ST ALBANS	WV
7.60 /7.00	WAU	ELKHORN CITY	EKY
	DXZ	LANETT(AL)	GA
	KMG	BLOUNTVILLE	TN
	ZOK	CHATT/SIGNAL MT	TN
	TEQ	CLARKSVILLE	TN
	ZR	TERRA ALTA	WV
7.615/7.015	MST	BONAIRE	GA
	FOW	CLEVELAND/LONG	GA
	UM	HINESVILLE	GA
	KPF	LK NORMN/CLT	NC
	UMU	SUMTER	SC
	RHV	HARRIMAN	TN
	K	NASHVILLE	TN
	YGM	UNION CITY	TN
	LNT	FREDRICKSBURG	VA
6.43 /7.03	YTZ	ROCK HILL	SC
	LGH	LEXINGTON	TN
	ZJM	MEMPHIS	TN
	JST	RICHMOND	VA
7.63 /7.03	REI	ATLANTA/AIRPORT	GA
	GG	GREENSBORO	NC
	DTS	ROANOKE RAPIDS	NC
	FOF	BARNWELL	SC
	HOG	N. MYRTLE BEACH	SC
	NIQ	FAYETTEVILLE	TN
	ODR	MILLINGTON	TN
	PRQ	MORRISTOWN	TN
	BLD	WAYNESBORO	VA
	IT	MULLENS/HRNDN MT	WV
	ECC	ST MARYS/BENS R	WV
6.445/7.045	FLR	FAYETTEVILLE	NC
	CNS	ROB/JOANNA BLD	NC
	YVM	ARLINGTON	VA
7.645/7.045	NFA	FARMINGTON	GA
	TYM	METTER	GA
	JRL	STATSVL/ASBRY MT	NC
	HKZ	COOKEVILLE	TN
	WRN	STAUNTON/EL. KB	VA
	SBC	VIRGINIA BEACH	VA
6.06 /7.06	JYR	MADISON	WV
6.46 /7.06	CQ	CHARLOTTE	NC
	MQQ	MEMPHIS	TN
	LBM	VOLENS	VA
	WL	PRINCETON	WV
7.66 /7.06	DDI	MACON	GA
	CLA	ROSWELL	GA
	UCJ	THOMASVILLE	GA
	LED	MACO	NC
	VFR	SUMTER/SHAW	SC
	LYF	GRNVLE/GRYSTN	TN
	QEB	SHELBYVILLE	TN
	ECM	CHESTERFLD CO	VA
	KNM	POINT PLEASANT	WV
6.475/7.075	VGZ	BURLINGTON	NC
7.675/7.075	JXR	SNELLVILLE	GA
	HBQ	BURLINGTON	NC
	L	NEWTON	NC
	BVO	CLARKSVILLE	TN
	GBI	KNOXVILLE	TN
	PNT	WAYNSBR/BEAR DEN	VA
7.69 /7.09	NDB	FLAT GAP	EKY
	YK	PHELPS	EKY
	CVE	ST SIMONS ISL	GA
	GDF	GREENVL/ESTN NC	NC
	RDN	ORANGEBURG	SC
	ATI	GERMANTON	TN
	BSA	SPARTA/BON AIR	TN
	VL	GALAX/BRIRP MT	VA
7.705/7.105	YSB	ATLANTA	GA
	D	STATESBORO	GA
	JCK	MONROE	NC
	GHH	MOUNTAIN HOME	NC
	JBJ	BEDFORD	VA
	VNQ	MT STORM	WV
	APG	SPENCER	WV
7.72 /7.12	ASZ	WINCHESTER	EKY
	MM	ALBANY	GA
	S	AUGUSTA	GA
	CMA	CEDARTOWN	GA
	REW	GAST/SPCR MT	NC
	IKY	GIBSONVILLE	NC
	EWL	ROCKY MOUNT	NC
	GMV	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	FAF	CULPEPPER	VA
	DKM	BRIDGEPORT	WV
	VKI	DUNBAR	WV
7.735/7.135	BZJ	DALTON	GA
	JFE	VALDOSTA	GA
	CJS	BREVARD/RICH MTN	NC
	ABW	CHERAW	SC
	EDS	ALAMO	TN
	AZJ	PEARISBURG	VA
	HB	RICHMOND	VA
7.745/7.145	KNE	MT. STERLING	EKY
7.75 /7.15	MWA	DOG FORK MT	EKY
	TFW	ALBANY	GA
	BYK	CUMMING/SAWNEE	GA
	VLY	MORGANTON	NC
	ITL	RALEIGH	NC
	BJM	MONCKS CORNER	SC
	SDT	SIMPSONVILLE	SC
	KUB	MEMPHIS	TN
	PCD	NASHVILLE	TN
	EAJ	OAK RIDGE	TN
	QKH	TAZEWELL	VA
	SVR	ST ALBANS	WV
7.765/7.165	TCU	DOUGLAS	GA
	RT	HIGH POINT	NC
	YF	GREENWOOD	SC
	CEX	PURYEAR	TN
	CTF	NEWPORT NEWS	VA
	FJT	WARRENTON	VA
7.78 /7.18	BMA	AUGUSTA	GA
	NHW	BALDWIN	GA
	BI	SYCAMORE	GA
	EJJ	SANFORD	NC
	CTJ	WILMINGTON	NC
	NAT	DORCHESTER	SC
	SC	FT MILL/CAROWND	SC
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	DES	POLK CTY/OSWALD	TN
	KAF	PETERSBURG	VA
	Z	PKS KB/PULASKI	VA
	NMT	LEON	WV
7.795/7.195	SMX	ATLANTA	GA
	RD	CAIRO	GA
	NIN	LENOIR	NC
	WB	MURPHY	NC
	RTS	LYNCHBURG	VA
7.81 /7.21	SG	CONYERS	GA
	LN	DALTON	GA
	NLX	SAVANNAH	GA
	BUZ	GREENSBORO	NC
	MSD	WHITEVILLE	NC
	AVU	LITTLE MT.	SC
	WS	COOKEVILLE	TN
	WKZ	JACKSON	TN
	IWG	MCLEAN	VA
	AXO	WISE/HIGH KNOB	VA
	TC	CHARLESTON	WV
7.825/7.225	ZUN	JEFFERSON	GA
	LVY	SUMMERVILLE	GA
	WTX	HILLSBOROUGH	NC
	DTW	LAKE MARION	SC
	OAH	MORRISTOWN	TN
	C	HARRISONBURG	VA
	SDC	YORKTOWN	VA
7.84 /7.24	DII	ASHLAND	EKY
	NFG	IRWINTON	GA
	NIW	CARTHAGE	NC
	ACP	EDEN/MAYODAN	NC
	BKU	FOREST CITY	NC
	GHZ	FRANKLIN	NC
	BAL	HILTON HEAD	SC
	BGF	LANCASTER	SC
	NIT	GALLATIN	TN
	OKH	SOUTH HILL	VA
	FQR	WOODBRIDGE	VA
7.855/7.255	KDT	ATLANTA	GA
	AV	ASHEBORO	NC
	KNI	HENDSVL/PENIC/MT	NC
	SI	PETROS	TN
	TVS	ACCOMAC	VA
	CYZ	DANTE	VA
	VAZ	MARTINSBURG	WV
7.885/7.255	BZU	DONELSON	TN
7.87 /7.27	GEL	PIKEVILLE	EKY
	VBH	AMERICUS	GA
	PJE	FORT PAYNE(AL)	GA
	H	BENSON	NC
	SM	WAYNESVILLE	NC
	LET	CHARLESTON	SC
	JRJ	SENECA/LONG MT	SC
	YQC	GALLATIN	TN
	FH	JOHNSON CITY	TN
	OWI	MEMPHIS	TN
	TMC	PINSON	TN
	GX	GUM SPRING	VA
	SLI	SCOTT DEPOT/COAL	WV
7.885/7.285	PVW	ASHBURN	GA
	VBX	ATLANTA/GPCO	GA
	ADM	AIKEN	SC
	DCD	MYT BEA/BRKSVLLE	SC

REPEATERS BY FREQUENCY

	I	ROCKY SPUR	SC
	MJM	PIKEVILLE	TN
	L	MARTINSVILLE	VA
	HON	SPRUCE KNOB	WV
7.90 /7.30	U	SALYERSVILLE	EKY
	ACY	PERRY	GA
	HNM	ROME	GA
	YJG	JEFFERSON	NC
	NHV	LUMBERTON	NC
	OMV	TUCKASEGEE	NC
	LWS	MT. PLEASANT	SC
	BBB	KNOXVILLE	TN
	ADT	MEMPHIS	TN
	ZSA	NASHVILLE	TN
	SPS	FRANKLIN	VA
	ZR	LEXINGTON	VA
	TSC	WINCH/BLUEMONT	VA
	NSL	HARRISVILLE	WV
	BKX	HUNTINGTON	WV
7.915/7.315	RBW	UNION CROSS	NC
	HQT	JASPER	TN
	HFH	ALEXANDRIA	VA
	MR	CLARKSBURG	WV
7.92 /7.32	HWQ	GRUNDY	VA
7.93 /7.33	KWH	ASHLAND	EKY
	KNE	MT. STERLING	EKY
	BXO	LAGRANGE	GA
	DIP	TOCCOA	GA
	LPL	FAYVLLE/FT BRAGG	NC
	K	LENOIR/HIBRITN	NC
	NUY	COLUMBIA	SC
	VXW	COVINGTON	TN
	CV	CROSSVILLE	TN
	AJS	NASHVILLE	TN
	PQD	LEXNGTN/COLE MT	VA
	ZIP	WARSAW	VA
7.94 /7.34	NEQ	ATLANTA/MARIETTA	GA
7.945/7.345	IZD	LYNCH/BLACK MT	EKY
	NYR	SHELBY	NC
	TEP	WASHINGTON	NC
	WF	HENDERSONVILLE	TN
	RUA	FRANKLIN	WV
7.95 /7.35	YZR	DANVILLE	VA
7.96 /7.36	EO	DOUGLASVILLE	GA
	HZX	DUBLIN	GA
	V	BOONE/RICH MTN	NC
	LDB	DURHAM	NC
	Z	LUMBERTON	NC
	OAK	KNXVL/CROSS MT	TN
	MMI	MEMPHIS	TN
	NTM	NASHVILLE S.	TN
	KLX	PARIS	TN
	CBB	CHESTERFIELD	VA
7.975/7.375	TQU	ATHENS	GA
	VEK	LAFAYETTE	GA
	YN	BURNSVILLE	NC
	ROK	GREENVILLE	NC
	DMI	GEORGETOWN	SC
	LEO	GREENVILLE	SC
	BTJ	HILLSVILLE	VA
	ILD	LYNCHBURG	VA
	NV	VIRGINIA BEACH	VA
	LNB	GRAFTON	WV
	WMX	ST ALBANS	WV
7.99 /7.39	PDJ	JENKINS	EKY
	IMK	THOMASTON	GA
	CHZ	AQUADALE	NC
	PLY	CHARLOTTE	NC
	QBG	EDEN/STONEVILLE	NC
	FAU	SHALLOTTE	NC
	FEC	LEXINGTON	SC
	TA	CLARKSVILLE	TN
	ZLA	DAYTON/RHEA CTY	TN
	SBX	GRAY	TN
	AJO	MADISON	VA
	ARO	PETERSBURG	VA
	LLM	UNION	WV
6.835/7.435	EV	DALONEGA	GA
7.315/7.915	SPJ	FORSYTH	GA

220 MHZ

3.94 /2.34	DBB	BEDFORD/APL MT	VA
2.12 /3.72	PGA	LOUISA	EKY
	KHP	STERLING PK	VA
2.30 /3.90	NSO	GAINESVILLE	GA
	RAB	HERMITAGE	TN
2.32 /3.92	AZA	HIGH POINT	NC
2.34 /3.94	QK	ASHLAND	EKY
	UPC	YORKVILLE	GA
	BVW	ASHVL/MT PISGAH	NC
	WTX	HILLSBOROUGH	NC
	GP	CLARKSVILLE	TN
2.36 /3.96	C	ROCKY MOUNT	NC
2.38 /3.98	APS	VALDOSTA	GA
	HUV	LINWOOD	NC
	ILY	GREER	SC
	ZSA	GALLATIN	TN
2.40 /4.00	IZP	JASPER	GA
	ZIA	LOCUST	NC
	HQ	DELTAVILLE	VA
2.42 /4.02	JEH	CONYERS	GA
	EHF	FAYETTEVILLE	NC
	MDW	HICKORY	NC
	TB	NASHVILLE	TN
2.44 /4.04	BZJ	DALTON	GA
2.46 /4.06	UPC	BUCHANAN/HARALSO	GA
	N	PICKENS/SASFR MT	SC
	BZS	FLT TP/WNTRPLACE	WV
2.48 /4.08	GIS	CARTERSVILLE	GA
	CII	RIDGEVILLE	SC
	UEX	NASHVILLE	TN
2.50 /4.10	F	CORNELIA	GA
	YHD	FAIRFAX	VA
	DBB	ROANOKE	VA
2.52 /4.12	NFP	ATLANTA/MARIETTA	GA
	FEC	LITTLE MT	SC
	MEY	NASHVILLE	TN
2.54 /4.14	WOR	LUMBERTON	NC
	QHF	PICKENS/CSRS HD	SC
	SGS	FRANKLIN	TN
	YYW	WILLIAMSON	WV
2.56 /4.16	K	LENOIR/HIBRITN	NC
	TA	CLARKSVILLE	TN
2.58 /4.18	TAG	HICKORY VALLEY	TN
	DAS	VIRGINIA BEACH	VA
2.60 /4.20	UA	AUGUSTA	GA
	YTU	BROWNSVILLE	TN
	PEA	FARMVILLE	VA
2.62 /4.22	AWB	NASHVILLE	TN
2.64 /4.24	KNI	HENDSVL/BERWLW M	NC
2.66 /4.26	NP	MT. JULIET	TN
2.68 /4.28	BLR	ATLANTA	GA
	M	LYNCHBURG	VA
2.70 /4.30	PVI	STATESVILLE	NC
2.72 /4.32	JBF	THOMASVILLE	GA
2.74 /4.34	DOC	ATLANTA	GA
	DFH	FRIES/SAND MTN	VA
2.76 /4.36	TYO	MARSHALL	NC
2.78 /4.38	RBT	CLEVELAND	GA
	GJG	DANVILLE	VA
2.80 /4.40	ZC	CHARLT/MINT HL	NC
	YTU	BROWNSVILLE	TN
2.82 /4.42	NDQ	NORTON/HIGH KB	VA
2.84 /4.44	OG	NASHVILLE	TN
2.86 /4.46	YON	KNOXVILLE	TN
2.88 /4.48	LNB	GRAFTON	WV
2.90 /4.50	YNY	WILMINGTON	NC
	BBB	KNOXVILLE	TN
	DRL	MEM/FISHERVILLE	TN
	BVI	MARTINSVILLE	VA
2.92 /4.52	KSM	CANTON	GA
2.94 /4.54	BVW	MT MITCHELL	NC
2.96 /4.56	DOC	ATL/CHESTNUT MT	GA
2.98 /4.58	F	PIKEVILLE	EKY
	YHH	SAURATOWN MT	NC
	VFD	CROSS	SC
3.00 /4.60	N	ASHEVILLE	NC
	NNR	HIGH POINT	NC
3.02 /4.62	ETG	PIKEVILLE	EKY
	ZTL	ATLANTA/BELL	GA
3.04 /4.64	PEN	RALEIGH	NC
	YHH	WINSTON-SALEM	NC
	MQG	CHATTANOOGA	TN
3.06 /4.66	BKM	MACON	GA
	TYO	MARS HILL	NC
	MEY	NASHVILLE	TN
3.08 /4.68	KPF	LK NORMN/CLT	NC
3.10 /4.70	IQR	ATLANTA	GA
	RXG	SAURATOWN MT	NC
3.12 /4.72	MSK	MT. TOXAWAY	NC
	KHP	TYSONS CORNER	VA
3.14 /4.74	KVC	DALTON	GA
	FG	KINGSTON/LICK KB	WV
3.16 /4.76	BOC	STONE MT	GA
	EXU	SALISBURY	NC
	OAK	DAN/WHT OAK	VA
3.18 /4.78	VCM	CHATTANOOGA	TN
	UCI	JOHNSON CITY	TN
	KOG	MEMPHIS	TN
3.20 /4.80	PML	MORGANTON	NC
3.22 /4.82	C	ATLANTA	GA
	IKY	GREENSBORO	NC
	CCF	ALEXANDRIA	VA
3.24 /4.84	ACY	PERRY	GA
	DAN	GRIFTON	NC
	PLV	BEDFORD	VA
3.26 /4.86	TEM	KNOXVILLE	TN
	UHA	NEWPORT NEWS	VA
3.28 /4.88	RXG	SAURATOWN MT	NC
3.30 /4.90	QPL	MARIETTA	GA
	EOY	COLUMBIA	SC
	ZOK	CHATT/SIGNAL MT	TN
3.34 /4.94	UPC	CANTON	GA
	EV	ROSSVILLE	GA
	NKM	GREENEVILLE	TN
	GVC	CHESAPEAKE	VA
	DBB	ROANOKE/POOR MTN	VA
3.36 /4.96	UDS	CHERRYVILLE	NC
	JVX	GOLDSBORO	NC
	YHH	SAURATOWN MT	NC
3.38 /4.98	JSR	CUMMING/SAWNEE	GA
	CHP	FALLS CHURCH	VA

440 MHZ

9.45 /5.67	DOC	ATLANTA	GA
9.25 /1.25	KIP	ATLANTA	GA
	PXX	BRUNSWICK	GA
	HUV	SAURATOWN MT	NC
	GUP	LEXINGTON	SC
	O	MOUNDSVILLE	WV
	UMU	SUMTER	SC
	WIN	NORFOLK	VA
	MM	ALBANY	GA
	NYR	SHELBY	NC
1.25 /9.25	ERU	MEMPHIS	TN
7.00 /2.00	WAY	PICKENS/CSRS HD	SC
	BIW	MARION	VA
	CSG	WINCHESTER	VA
7.025/2.025	JA	AUGUSTA	GA
	PML	MORGANTON	NC
7.05 /2.05	DXZ	LANETT(AL)	GA
	XX	JASPER	TN
	BEZ	MEDINA	TN
7.10 /2.10	ACP	EDEN	NC
	ABJ	MILAN	TN
7.15 /2.15	BEA	RALEIGH	NC
7.175/2.175	EO	ROCKY FACE	GA
7.20 /2.20	BJY	JACKSON	TN
	LNB	GRAFTON	WV
7.25 /2.25	HQT	JASPER	TN
	HTI	COVINGTON	VA
7.30 /2.30	VFD	CROSS	SC
7.325/2.325	JSR	CHATTANOOGA	TN
7.50 /2.50	NTZ	KNOXVILLE	TN
	CA	ROANOKE/POOR MT	VA
7.500/2.500	YNY	WILMINGTON	NC
7.55 /2.55	JEH	CONYERS	GA
7.70 /2.70	AZU	SAVANNAH	GA
	VG	ROANOKE	VA
7.80 /2.80	EPG	JACKSON	TN
	QWW	MEMPHIS	TN
7.825/2.825	G	MEMPHIS	TN
7.90 /2.90	AZA	HIGH POINT	NC
8.00 /3.00	EO	CHATSWORTH	GA
	LUR	LAKE CITY	TN
	LUR	LAKE CITY/CRS MT	TN
	QWW	MEMPHIS	TN
	VL	GALAX/PT LOOKOUT	VA
8.05 /3.05	JVX	GOLDSBORO	NC
	PUB	MT JULIET	TN
8.10 /3.10	IZD	LYNCH/BLACK MT	EKY
	GGC	SAURATOWN MT	NC
	HKZ	PARIS MT	SC
	G	FAYETTEVILLE	TN
	FHE	BUCKHANNON	WV
8.15 /3.15	S	AUGUSTA	GA
8.20 /3.20	CLA	SWEAT MT	GA
	TAG	HICKORY VALLEY	TN
8.30 /3.30	KQI	STATESVILLE	NC
	KJH	GATLBG/COVE MT	TN
8.40 /3.40	GMT	CUMBERLAND CITY	TN
	DOR	MEMPHIS	TN
8.45 /3.45	VEK	HIGH PT/LOOKT MT	GA
8.50 /3.50	LVH	ATLANTA	GA
	PQZ	GREENSBORO	NC
	WKS	PARIS/GROVE HL	TN
	GUS	TYSONS CORNER	VA
8.55 /3.55	LVH	ATLANTA/SE	GA
	XE	ROARING GAP	NC
8.60 /3.60	ACJ	MARIETTA	GA
	DWU	MT MITCHELL	NC
8.65 /3.65	ZV	ATLANTA	GA
	UMI	HAMPTON	VA
8.70 /3.70	LXW	HIGH POINT	NC
	LBT	LOCUST	NC
8.75 /3.75	TF	COVINGTON	GA
	EDS	ALAMO	TN
	WIC	WINDY GAP MT	VA
8.30 /3.80	EAQ	MANASSAS	VA
8.80 /3.80	OKS	JASPER/BIG BUCK	GA
	HNK	SUMMERVILLE	SC
	NDH	CHESAPEAKE	VA
	JRL	WYTHEVILLE	VA
8.85 /3.85	GTJ	WALESKA/PNLOG MT	GA
	IDB	FRANKLIN	TN
8.875/3.875	LZQ	CAESARS HEAD	SC
8.90 /3.90	GWA	GRIFFIN	GA
	YTU	BROWNSVILLE	TN
	EVG	CHESAPEAKE	VA
8.925/3.925	IU	RINGGOLD	GA
8.95 /3.95	NTG	WILLIAMSBURG	VA
9.00 /4.00	QDX	LAWRENCEVILLE	GA
	JEQ	HICKORY	NC
	ADT	MEMPHIS	TN
	SDC	VIRGINIA BEACH	VA
	IT	MULLENS/HRNDN MT	WV
9.000/4.000	VBA	LINEVILLE (AL)	GA
9.025/4.025	MSE	STONE MT	GA
	RDK	MEMPHIS	TN
9.05 /4.05	PQD	MARIETTA	GA
	OG	NASHVILLE	TN
	BLD	BEAR DEN MT	VA
9.10 /4.10	APR	DECATUR	GA
	WTX	DURHAM	NC
	NFO	CHATTANOOGA	TN
	JXT	MEMPHIS	TN
9.15 /4.15	ZTL	ATLANTA/BELL	GA
	PQD	LEXNGTN/COLE MT	VA
	VA	SPRINGFIELD	VA
9.20 /4.20	QHN	COLUMBUS	GA
	LBM	DECATUR	GA
	NEX	MORRISTOWN	TN
	ECM	CHESTER	VA
	EZA	WAYNESBORO	VA
9.25 /4.25	BOC	ATLANTA/STONE MT	GA
	KNI	HENDSVL/BERWLW M	NC
	ETE	MEMPHIS	TN
	RM	SMYRNA	TN
	TFZ	CHARLOTTESVILLE	VA
9.30 /4.30	MNH	CHARLESTON	SC
	HXD	KNOXVILLE	TN
	DDS	MEM/FISHERVILLE	TN
	BLD	WAYNESBORO	VA
9.325/4.325	ACJ	MARIETTA	GA
9.35 /4.35	JF	TIFTON	GA
	DBB	BEDFD/APL ORCH	VA
9.375/4.375	BFD	MT OGELTHORPE	GA
9.40 /4.40	ZW	FAYETTEVILLE	NC
	KOG	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	ARO	PETERSBURG	VA
9.425/4.425	ISI	ALTAVISTA	VA
9.45 /4.45	YTU	BROWNSVILLE	TN
	KWP	GALLATIN	TN
	CRK	FALLS CHURCH	VA
9.50 /4.50	MM	ALBANY	GA
	UWL	ATLANTA	GA
	LSP	BRISTOL/HLST MT	TN
	KSL	KNOXVILLE	TN
	IZF	MEMPHIS	TN
	HEX	LYNCHBURG	VA
9.525/4.525	USY	SUMTER/SHAW	SC
9.55 /4.55	NEF	TYRONE	GA
	JPA	HAMPTON	VA
9.575/4.575	OG	NASHVILLE	TN
9.60 /4.60	BFB	CHARLOTTE	NC
	NK	KNOXVILLE	TN
	JXI	MEMPHIS	TN
	HFH	ALEXANDRIA	VA
9.625/4.625	WQ	ATLANTA	GA
	MZ	BLUEFIELD	VA
9.65 /4.65	IBW	SMYRNA	GA
	HF	SALISBURY	NC
	NKM	GREENEVILLE	TN
	ARO	RICHMOND	VA
9.675/4.675	EBZ	NEWNAN	GA
	AY	NASHVILLE	TN
9.70 /4.70	HHH	ELLIJAY TALONA M	GA
	APS	VALDOSTA	GA
	JEH	ROCKY MOUNT	NC
	DRU	MT PLEASANT	SC
	MMI	MEMPHIS	TN
	LG	MORGANTOWN	WV
9.725/4.725	TIW	DALTON	GA
9.75 /4.75	EMM	CONYERS	GA
	RFA	ROCK HILL	SC
	BFS	ELIZ/HOLSTON MT	TN
	KQI	FOREST	VA
	JYF	TYSONS CORNER	VA

CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	☆	PA
ALBEMARLE	K4OGB	146.385	146.985	☆	A
AQUADALE	WA4CHZ	147.99	147.39	N	
ASHEBORO	KJ4AV	147.855	147.255	☆	PAL
ASHEVILLE	WA4QCO	146.235	146.835	☆	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	☆	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	☆	A
BEARWALLOW MT.	WA4KNI	145.01	BRA	☆	K
BENSON	AK4H	147.87	147.27	☆	A
BOONE/RICH MTN	KU4V	147.96	147.36	☆	
BREVARD/RICH MTN	WB4CJS	147.735	147.135	☆	A
BURGAW	W4DLH	146.34	146.94	☆	
BURLINGTON	WB4ZIN	146.07	146.67	☆	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	☆	
CHARLOTTE	W4BFB	144.63	145.23	N	
CHARLOTTE	W4BFB	144.69	145.29	N	A
CHARLOTTE	WA4AOS	144.75	145.35	N	L
CHARLOTTE	W4BFB	146.34	146.94	N	A
CHARLOTTE	W4CQ	146.46	147.06	☆	A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775	N	R
CHERRY MT	W4TMT	146.07	146.67	N	
CLINTON	WA4LZD	146.19	146.79	N	
CONCORD/KANNAP.	K4CEB	146.055	146.655	☆	PA
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	N4CID	146.10	146.70	☆	PA
DURHAM	WA4WTX	144.85	145.45	☆	AL
DURHAM	WA4BFT	146.34	146.94	N	A
DURHAM	WD4LDB	147.96	147.36	☆	
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	O
EDEN/STONEVILLE	WA4QBG	147.99	147.39	☆	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	☆	
FAYETTEVILLE	WA4FLR	146.445	147.045	☆	R
FAYVLLE/CFARS	WB4YZF	146.31	146.91	☆	PA
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	N	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	☆	
FRANKLIN	W4GHZ	147.84	147.24	☆	
GAST/SPCR MT	W4REW	147.72	147.12	N	A
GASTONIA	K4NOQ	146.205	146.805	☆	PA
GIBSONVILLE	WB4IKY	147.72	147.12	☆	A
GOLDSBORO	K4CYP	146.25	146.85	☆	A
GREENSBORO	K4SNI	146.01	146.61	☆	A
GREENSBORO	WA4MSS	146.16	146.76	N	
GREENSBORO	W4GG	147.63	147.03	☆	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENSBORO/GLD H	N4AZM	144.65	145.25	☆	A
GREENVILLE	WA4DAN	144.75	145.35	☆	L
GREENVILLE	K4ROK	147.975	147.375	N	
GREENVL/ESTN NC	W4GDF	147.69	147.09	☆	
GRIFTON	W4NBR	146.085	146.685	☆	
HALIFAX	AA4SJ	146.07	146.67	N	A
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	☆	A
HENDSVL/PENIC/MT	WA4KNI	147.855	147.255	☆	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	N	
HIGH POINT	N4XO	144.81	145.41	N	AO
HIGH POINT	N4LDK	146.40	147.00	☆	LA
HIGH POINT	KB4BPV	147.435	146.835	☆	PA
HIGH POINT	KJ4RT	147.765	147.165	☆	PA
HILLSBOROUGH	WA4WTX	147.825	147.225	☆	AL
JACKSONVILLE	WD4FVO	146.40	147.00	☆	A
JEFFERSON	W4YJG	147.90	147.30	☆	A
LAURINBURG	K4QWK	146.025	146.625	☆	A
LENOIR	N4NIN	147.795	147.195	N	C
LENOIR/HIBRITN	KN4K	147.93	147.33	☆	
LEXINGTON	K4IZM	146.31	146.91	☆	EA
LK NORMN/CLT	WB4KPF	147.615	147.015	☆	PA
LUMBERTON	W4NHV	147.90	147.30	☆	PA
LUMBERTON	WV4Z	147.96	147.36	☆	PA
MACO	WA4LED	147.66	147.06	N	
MADISON	KA4YFF	146.295	146.895	N	
MAGGIE VALLEY	W4HCY	147.405	146.805	☆	
MANTEO/WANCHESE	W4ACY	146.34	146.94	☆	
MARION	WD4PVE	146.385	146.985	☆	A
MAYODAN	WA4ACP	144.69	145.29	N	
MILLERS CREEK	N4GGN	146.115	146.715	☆	A
MONROE	K4JCK	147.705	147.105	N	A
MONROE/UCARS	KF4NJ	144.79	145.39	☆	PA
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	☆	
MOUNTAIN HOME	K4GHH	147.705	147.105	☆	
MT AIRY	WA4ZAS	146.37	146.97	N	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	N	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	N	A
MT MITCHELL	WA4BVW	144.59	145.19	☆	
MURPHY	KC4WB	147.795	147.195	N	
N. WILKESBORO	N4AGN	144.77	145.37	☆	PA
NAGS HEAD/BODIE	N4JXG	146.235	146.835	☆	PA
NEW BERN	WD4JMS	146.01	146.61	☆	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	AG4L	147.675	147.075	☆	A
NEWTON/ANDSN MT	W4ZQB	144.57	145.17	N	
OXFORD	N4EKK	144.57	145.17	☆	PA
RALEIGH	N4BEA	144.67	145.27	N	PAL
RALEIGH	N4CBI	144.89	145.49	N	
RALEIGH	W4DW	146.04	146.64	☆	
RALEIGH	K4BWC	146.13	146.73	☆	PA
RALEIGH	K4ITL	146.28	146.88	☆	L
RALEIGH	K4ITL	147.75	147.15	☆	PA
RANDLEMAN/GBO	WD4CVM	144.55	145.15	☆	
REIDSVILLE	K4YFT	146.25	146.85	N	
ROANOKE RAPIDS	K4ITL	144.71	145.31	☆	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	N	

DISTRIBUTION OF REPEATERS BY FREQUENCY

9.775/4.775	NEQ	ATLANTA/MARIETTA	GA
	QES	NASHVILLE	TN
9.80 /4.80	J	GREENVILLE	NC
	UY	MT AIRY/FSH PK	NC
	JXI	MEMPHIS	TN
	MIC	OILVILLE	VA
	FRV	KINSTON/LICK KB	WV
	CUL	MORGANTOWN	WV
9.825/4.825	ZBP	STAUNTON	VA
9.85 /4.85	NFP	ATLANTA/MARIETTA	GA
	CQ	CHARLOTTE	NC
	GMP	WILMINGTON	NC
	ARO	RICHMOND	VA
9.875/4.875	LRD	CHATTANOOGA	TN
	THG	NASHVILLE	TN
	FMD	JANE LEW	WV
9.90 /4.90	COS	ASHVL/MT PISGAH	NC
	ZW	FAYETTEVILLE	NC
	VBC	NEW BERN	NC
	J	WILSON	NC
	MMI	MEMPHIS	TN
9.925/4.925	NNO	ATLANTA	GA
	BUH	ANDERSON/SAS MT	SC
	ETE	MEMPHIS	TN
	BON	ROANOKE/POOR MT	VA
9.95 /4.95	I	AUGUSTA	GA
	KIN	PERRY	GA
	WXL	RALEIGH	NC
	SIR	BENTON/BEAN MT	TN
	KQQ	MEMPHIS	TN
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	CQV	S. CHARLESTON	WV
9.975/4.975	YNZ	ATLANTA	GA
	TVE	BRUNSWICK	GA
	HPP	MEMPHIS	TN
	QES	NASHVILLE	TN
	O	WHEELING	WV
6.65 /6.65	DBB	ROANOKE	VA
4.225/9.225	JCE	MANASSAS	VA
4.825/9.825	DOC	ATLANTA	GA
4.90 /9.90	OLL	MACON	GA
	FQR	WOODBRIDGE	VA
4.925/9.925	TSC	WINCH/BLUEMONT	VA

920 MHZ

7.10 /9.10	TAG	HICKORY VALLEY	TN
9.10 /1.10	DRL	MEM/FISHERVILLE	TN

1270 MHZ

1.40 /1.40	DOC	ATL/CHESTNUT MT	GA
1.10 /1.10	DRL	MEM/FISHERVILLE	TN
1.20 /1.20	TAG	HICKORY VALLEY	TN

10 METERS

9.60 /9.60	TFZ	CHARLOTTESVILLE	VA
	CTF	NEWPORT NEWS	VA
9.52 /9.62	LVH	ATLANTA	GA
	XE	WILKESBORO	NC
	IOB	KNXVL/ENG MT	TN
	ZJM	MEMPHIS/FRAYSER	TN
9,54 /9.64	W	JACKSON	TN
9.54 /9.64	CC	ATL/MARIETTA	GA
	BZU	DONELSON	TN
	TAG	HICKORY VALLEY	TN
	BON	ROANOKE/POOR MT	VA
9.56 /9.66	ACP	EDEN	NC
	ZBP	STAUNTON	VA
9.58 /9.68	MM	ALBANY	GA
	K	CONYERS	GA
	BZJ	DALTON	GA
	XX	JASPER	TN
	DRL	MEM/FISHERVILLE	TN
	MZ	ONEIDA PK/BLFLD	VA
	DN	STERLING	VA

6 METERS

2.58 /2.48	DCS	FAIRFAX	VA
2.525/2.525	YAO	HENDERSONVILLE	NC
	AZA	HIGH POINT	NC
	TFZ	CHARLOTTESVILLE	VA
2.64 /2.84	KHP	FAIRFAX STA	VA
2.01 /3.01	YAO	HENDERSONVILLE	NC
	LRD	CHATTANOOGA	TN
	KOG	MEMPHIS	TN
	PQD	LEXNGTN/COLE MT	VA
	LSP	NORTON/HIGH KB	VA
2.03 /3.03	EDU	AUGUSTA	GA
	DTS	ROANOKE RAPIDS	NC
2.05 /3.05	UPC	WALESKA/PNLOG MT	GA
	HSN	COPE	SC
	DKL	BOLT/BOLT MT	WV
2.07 /3.07	VBA	LINEVILLE(AL)	GA
	NNN	LOUISA	VA
2.09 /3.09	MPW	ATL/MARIETTA	GA
	BON	ROANOKE/POOR MT	VA
2.13 /3.13	CCF	ALEXANDRIA	VA
	GJG	DANVILLE(DCC)	VA
2.15 /3.15	IOB	KNXVL/ENG MT	TN
	DBB	BEDFORD/THAX MT	VA
2.19 /3.19	UCE	COOKEVILLE	TN
2.23 /3.23	ZKL	GUTHRIE	EKY
	ZKL	GUTHRIE (TN/KY)	TN
2.25 /3.25	RZF	RALEIGH/BUTNER	NC
	YON	KNOXVILLE	TN
	FJ	RIDGEWAY	VA
	DBB	ROANOKE	VA
2.27 /3.27	DRL	MEM/FISHERVILLE	TN
2.35 /3.35	GBI	KNOXVILLE	TN
2.41 /3.41	YXY	PICKENS	SC
2.43 /3.43	B	RICHMOND	VA
2.45 /3.45	MPM	FLAT GAP	EKY
	KWP	GALLATIN	TN
2.47 /3.47	MDW	HICKORY	NC
2.55 /3.55	JEH	CONYERS	GA
	RDK	MEMPHIS	TN
2.03 /3.63	JKA	ST ALBANS/COAL	WV
2.06 /3.66	JYR	DANVILLE/MADSN	WV
2.67 /3.67	WRS	STATESVILLE	NC
	TAG	HICKORY VALLEY	TN
2.09 /3.69	SVR	HERNSHAW/BEE MT	WV
2.12 /3.72	CDE	RAND	WV

MORE NORTH CAROLINA REPEATERS

ROARING GAP	WB4PZA	146.22	146.82	☆	A
ROB/JOANNA BLD	WD4CNS	146.445	147.045	N	
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	N	PA
SALISBURY	W4EXU	146.13	146.73	☆	PA
SANFORD	WB4EJJ	147.78	147.18	N	A
SAURATOWN MT	W4RXG	144.51	145.11	☆	R
SAURATOWN MT	WA4GIC	144.87	145.47	☆	
SAURATOWN MT	N4LDK	146.19	146.79	☆	PA
SHALLOTTE	K4PPD	144.69	145.29	☆	PA
SHALLOTTE	N4FAU	147.99	147.39	☆	PA
SHELBY	W4NYR	146.28	146.88	☆	
SHELBY	W4NYR	147.945	147.345	N	PA
SMITHFIELD	KD4JQ	146.37	146.97	☆	A
SPARTA/GREEN MT	K4ITL	144.83	145.43	☆	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685	☆	PA
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	☆	
TRENTON	K4ITL	144.61	145.21	☆	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315	☆	
WADESBORO	WA4IAT	146.235	146.835	N	
WASHINGTON	WA4TEP	147.945	147.345	N	
WAXHAW	WA4ZRS	147.465	146.865	☆	PA
WAYNESVILLE	N4SM	147.87	147.27	☆	A
WHITEVILLE	K4MSD	147.81	147.21	☆	
WILLIAMSTON	KA4KNU	144.81	145.41	☆	A
WILMINGTON	W4VNK	146.13	146.73	☆	PA
WILMINGTON	K4GMP	146.22	146.82	☆	L
WILMINGTON	N4CTJ	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	☆	
WINSTON-SALEM	WA4GIC	146.04	146.64	☆	AL

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	☆	L
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	☆	
CHARLT/MINT HL	KE4ZC	222.80	224.40	☆	
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	☆	
GOLDSBORO	WB3JVX	223.36	224.96	N	EAC
GREENSBORO	WB4IKY	223.22	224.82	☆	A
GRIFTON	WA4DAN	223.24	224.84	☆	
HENDSVL/BERWLW M	WA4KNI	222.64	224.24	☆	
HICKORY	WA4MDW	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92	☆	LA
HIGH POINT	N4NNR	223.00	224.60	☆	PA
HILLSBOROUGH	WA4WTX	222.34	223.94	☆	L
LENOIR/HIBRITN	KN4K	222.56	224.16	☆	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	☆	
LOCUST	WA4ZIA	222.40	224.00	☆	PAL
LUMBERTON	WB4WOR	222.54	224.14	N	
MARS HILL	KA4TYO	223.06	224.66	N	C
MARSHALL	KA4TYO	222.76	224.36	N	
MORGANTON	WB4PML	223.20	224.80	☆	
MT MITCHELL	WA4BVW	222.94	224.54	☆	
MT. TOXAWAY	K4MSK	223.12	224.72	N	
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	☆	PA
SALISBURY	W4EXU	223.16	224.76	☆	L
SAURATOWN MT	WA4YHH	222.98	224.58	☆	C
SAURATOWN MT	W4RXG	223.10	224.70	☆	R
SAURATOWN MT	W4RXG	223.28	224.88	☆	
SAURATOWN MT	WA4YHH	223.36	224.96	☆	C
STATESVILLE	WA4PVI	222.70	224.30	N	
WILMINGTON	K4YNY	222.90	224.50	☆	CL
WINSTON-SALEM	WA4YHH	223.04	224.64	☆	PA

440 MHZ

ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHARLOTTE	W4BFB	449.60	444.60	N	
CHARLOTTE	W4CQ	449.85	444.85	☆	
DURHAM	WA4WTX	449.10	444.10	☆	AL
EDEN	WA4ACP	447.10	442.10	N	
FAYETTEVILLE	KB4ZW	449.40	444.40	N	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	P
GOLDSBORO	WB3JVX	448.05	443.05	N	EA
GREENSBORO	WD4PQZ	448.50	443.50	N	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	☆	
HICKORY	K4JEQ	449.00	444.00	☆	
HIGH POINT	K4AZA	447.90	442.90	☆	L
HIGH POINT	N4LXW	448.70	443.70	N	
LOCUST	WA4LBT	448.70	443.70	☆	L P
MORGANTON	WB4PML	447.025	442.025	☆	
MT AIRY/FSH PK	KF4UY	449.80	444.80	☆	L
MT MITCHELL	N4DWU	448.60	443.60	☆	
NEW BERN	WA4VBC	449.90	444.90	☆	O
RALEIGH	N4BEA	447.15	442.15	N	L
RALEIGH	WA1WXL	449.95	444.95	☆	
ROARING GAP	KC4XE	448.55	443.55	☆	L
ROCKY MOUNT	N4JEH	449.70	444.70	☆	PA
SALISBURY	KJ4HF	449.65	444.65	☆	ARB
SAURATOWN MT	WA4HUV	439.25	421.25	☆	V
SAURATOWN MT	N4GGC	448.10	443.10	☆	L
SHELBY	W4NYR	439.25	427.25	☆	V
STATESVILLE	KB4KQI	448.30	443.30	☆	RB
WILMINGTON	K4YNY	447.500	442.500	☆	
WILMINGTON	K4GMP	449.85	444.85	☆	
WILSON	NE4J	449.90	444.90	☆	

10 METERS

EDEN	WA4ACP	29.56	29.66	N	
WILKESBORO	KC4XE	29.52	29.62	☆	L

6 METERS

HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	N	
HIGH POINT	K4AZA	52.525	52.525	N	RB
RALEIGH/BUTNER	WB4RZF	52.25	53.25	N	C
ROANOKE RAPIDS	WA4DTS	52.03	53.03	N	
STATESVILLE	WA4WRS	52.67	53.67	N	

PACKET

BIG KNOB MT.	K4ZMC-1		145.01	N	K
CHARLOTTE	W4CQ-1		145.01	☆	K
CHARLOTTE	W4BFB-1		145.01	N	K
CHERRY MTN	WB4RDL-1		145.01	N	K
COLFAX	KE4TH-1		145.07	N	K
CONCORD	K4CEB-1		145.05	☆	K
GOLDSBORO	K4CYP-1		145.01	☆	K
GREENSBORO	WB4WOR-5		145.01	N	K
GREENVILLE	WD4JPQ-1		145.01	☆	K
LINVILLE	KB4NHB-2		145.05	☆	K
LUMBERTON	W4NHV		145.01	☆	K
RALEIGH	K4BWC-1		145.01	☆	K
RALEIGH	K4ITL-1		145.01	☆	K
SAURATOWN MT	W4RXG-1		145.01	N	K

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255	☆	EA
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	☆	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	☆	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	☆	L
BEDFORD	WB4JBJ	147.705	147.105	☆	LRPA
BLACKSBURG	AB9I	146.115	146.715	N	
BLAND	N4AZJ	144.75	145.35	☆	PA
BLUEFIELD	W8MOP	144.89	145.49	☆	PA
BRISTOL	WD4CYZ	146.28	146.88	N	
BRUMLEY MT	K4LSP	146.01	146.61	☆	EA
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	☆	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	☆	
CHASE CITY	W4AXH	146.31	146.91	☆	
CHESAPEAKE	K4NDH	144.69	145.29	☆	EA
CHESAPEAKE	N4GSP	146.01	146.61	☆	A
CHESAPEAKE	N4SD	146.19	146.79	☆	A
CHESTERFIELD	KA4CBB	147.96	147.36	☆	
CHESTERFLD CO	WA4ECM	147.66	147.06	2	PA
COVINGTON	WA4HTI	146.205	146.805	N	
CULPEPPER	N4FAF	147.72	147.12	M	

SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE VIRGINIA REPEATERS

DANTE	WD4CYZ	147.855	147.255	N	
DANVILLE	K4YZR	147.95	147.35	N	ONB
DANVILLE(DCC)	WB4GJG	146.325	146.925	☆	A
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	☆	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WA4QQI	144.73	145.33	☆	
FINCASTLE	W4WIC	146.04	146.64	☆	AL
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	M	
GALAX	WA4ZIV	144.79	145.39	N	O
GALAX/BRIRP MT	N4VL	147.69	147.09	☆	
GALAX/LKOUT MT	N4VL	144.53	145.13	☆	
GLOUCESTER	KA2IMI	144.77	145.37	☆	
GRUNDY	K4HWQ	147.92	147.32	N	ANB
GRUNDY/BIG A MT	WD4DCX	146.235	146.835	N	
GUM SPRING	KB4GX	147.87	147.27	N	
HAMPTON	K4DHO	146.13	146.73	☆	PA
HAMPTON	K4UMI	146.34	146.94	N	T
HARRISONBURG	WX4C	147.825	147.225	☆	
HILLSVILLE	WD4BTJ	147.975	147.375	N	AO
JONESVILLE	N4LQC	146.31	146.91	☆	
KILMARNOCK	W2MS	144.61	145.21	N	A
LEXINGTON	KI4ZR	147.90	147.30	☆	
LEXNGTN/ROCK MT.	K4PQD	147.93	147.33	N	O
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	AB4M	147.43	144.93	N	NB
LYNCHBURG	WA4RTS	147.795	147.195	N	
LYNCHBURG	KB4ILD	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	☆	PA
MARION	KC4IH	146.04	146.64	☆	
MARTINSVILLE	AB4L	147.885	147.285	☆	
MCLEAN	WD4IWG	147.81	147.21	M	R
MOUNTAIN LAKE	KD8MZ	147.465	146.865	☆	RB L
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	O
NEW MARKET	K4AVW	146.025	146.625	☆	
NEWPORT NEWS	WA4OHX	144.89	145.49	N	PA
NEWPORT NEWS	WB4CTF	147.765	147.165	☆	PAL
NORFOLK	NE4D	146.10	146.70	☆	EA
ONEIDA PEAK/BLF	KD8MZ	146.355	146.955	☆	PAL
PEARISBURG	N4AZJ	147.735	147.135	☆	
PETERSBURG	K4ARO	144.55	145.15	N	
PETERSBURG	N4KAF	147.78	147.18	N	
PETERSBURG	K4ARO	147.99	147.39	☆	
PKS KB/PULASKI	KT4Z	147.78	147.18	N	PA
PORTSMOUTH	N4MG	146.25	146.85	N	
RICHMOND	K4YPE	144.51	145.11	☆	A
RICHMOND	NB4B	144.59	145.19	N	
RICHMOND	W4SQT	144.83	145.43	☆	PA
RICHMOND	WB4QEY	146.04	146.64	☆	PA
RICHMOND	WA4ECM	146.235	146.835	☆	
RICHMOND	WA4ZBE	146.28	146.88	☆	EA
RICHMOND	W4ZA	146.34	146.94	☆	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	☆	
ROANOKE	WB4QOJ	144.61	145.21	N	CRV
ROANOKE	N4AP	146.34	146.94	N	A
ROANOKE/POOR MT	KC4DY	146.145	146.745	N	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	☆	PAL
SALEM	W4PDL	146.28	146.88	N	
SOUTH HILL	N4OKH	147.84	147.24	☆	
STAUNTON	W4XD	146.10	146.70	☆	
STAUNTON	WA4ZBP	146.25	146.85	☆	
STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	N4RAG	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
STUARTS DRAFT	KB4OLM	147.96	147.36	N	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TAZEWELL	WA4QKH	147.75	147.15	N	
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.295	146.895	☆	
VIRGINIA BEACH	WA4KXV	146.37	146.97	☆	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
VIRGINIA BEACH	W4NV	147.975	147.375	☆	
VOLENS	WD4LBM	146.46	147.06	☆	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33	☆	EA
WAYNESBORO	W4BLD	147.63	147.03	☆	
WAYNSBR/BEAR DEN	W4PNT	147.675	147.075	☆	PAL
WILLIAMSBURG	W4NTG	146.07	146.67	☆	
WILLIAMSBURG	KB4ZIN	146.16	146.76	☆	A
WINCH/BLUEMONT	WA4TSC	147.90	147.30	M	
WINCHESTER	W4RKC	146.22	146.82	☆	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHEVILLE	WD4MUQ	146.175	146.775	☆	
YORKTOWN	K4UMI	144.63	145.23	N	P
YORKTOWN	WD4SDC	147.825	147.225	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
BEDFORD	N4PLV	223.24	224.84	N	
BEDFORD/APL MT	WB4DBB	223.94	222.34	☆	RB
CHESAPEAKE	WA6GVC	223.34	224.94	N	
DAN/WHT OAK	K4OAK	223.16	224.76	N	
DANVILLE	WB4GJG	222.78	224.38	☆	
DELTAVILLE	AA4HQ	222.40	224.00	☆	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FARMVILLE	WB4PEA	222.60	224.20	N	
FRIES/SAND MTN	WA4DFH	222.74	224.34	☆	
LYNCHBURG	AB4M	222.68	224.28	N	
MARTINSVILLE	WB4BVI	222.90	224.50	☆	EA
NEWPORT NEWS	KB4UHA	223.26	224.86	N	
NORTON/HIGH KB	WA4NDQ	222.82	224.42	N	
ROANOKE	WB4DBB	222.50	224.10	☆	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	N	
STERLING PK	WD4KHP	222.12	223.72	M	
STUARTS DRAFT	KB4OLM	223.36	224.96	N	
TYSONS CORNER	WD4KHP	223.12	224.72	M	L
VIRGINIA BEACH	WD8DAS	222.58	224.18	N	

440 MHZ

ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	☆	L
BEDFD/APL ORCH	WB4DBB	449.35	444.35	☆	L
BEDFORD	WD4KQI	448.60	443.60	N	
BLUEFIELD	KD8MZ	449.625	444.625	☆	LPA
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	☆	
CHESAPEAKE	K4NDH	448.80	443.80	☆	PA
CHESAPEAKE	N4EVG	448.90	443.90	☆	PA
CHESTER	WA4ECM	449.20	444.20	N	RB
COVINGTON	WA4HTI	447.25	442.25	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FOREST	WD4KQI	449.75	444.75	N	
GALAX/PT LOOKOUT	N4VL	448.00	443.00	☆	L
HAMPTON	K4UMI	448.65	443.65	N	
HAMPTON	WB4JPA	449.55	444.55	N	
LEXNGTN/ROCK MT.	WA4DUM	449.15	444.15	N	O
LYNCHBURG	WD4ELJ	439.25	923.25	N	CV
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
MARION	KC4IH	447.00	442.00	☆	
NORFOLK	W4WIN	439.25	426.25	N	V
OILVILLE	KB4MIC	449.80	444.80	N	
PETERSBURG	K4ARO	449.40	444.40	☆	
RICHMOND	K4ARO	449.65	444.65	☆	
RICHMOND	K4ARO	449.85	444.85	☆	
ROANOKE	WB4QOJ	426.25	911.25	N	CV
ROANOKE	WB4DBB	446.65	446.65	☆	L
ROANOKE	KA4YUY	447.175	442.175	N	
ROANOKE	N4VG	447.70	442.70	☆	
ROANOKE/POOR MT	W4CA	447.50	442.50	☆	L
ROANOKE/POOR MT	WB8BON	449.925	444.925	N	CL
SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	WA4ZBP	449.825	444.825	☆	
STAUNTON	W4WRN	449.95	444.95	N	
STUARTS DRAFT	KB4OLM	449.05	444.05	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WD4SDC	449.00	444.00	N	C
VIRGINIA BEACH	WA4KXV	449.95	444.95	☆	
WAYNESBORO	WA4EZA	449.20	444.20	N	
WAYNESBORO	W4BLD	449.30	444.30	☆	
WILLIAMSBURG	W4NTG	448.95	443.95	☆	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	N	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WINDY GAP MT	W4WIC	448.75	443.75	☆	L
WOODBRIDGE	WB4FQR	444.90	449.90	M	
WYTHEVILLE	KA4JRL	448.80	443.80	N	C

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	☆	RB
NEWPORT NEWS	WB4CTF	29.60	29.60	☆	RB
ONEIDA PK/BLFLD	KD8MZ	29.58	29.68	☆	
ROANOKE/POOR MT	WB8BON	29.54	29.64	N	CL
STAUNTON	WA4ZBP	29.56	29.66	☆	RB
STERLING	KD4DN	29.58	29.68	M	

6 METERS

ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	☆	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	☆	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	☆	
FAIRFAX	KA4DCS	52.58	52.48	M	NB
FAIRFAX STA	WD4KHP	52.64	52.84	N	NB
LEXNGTN/ROCK MT.	WA4DUM	52.01	53.01	N	OL
LOUISA	KA4NNN	52.07	53.07	N	
NORTON/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	NB4B	52.43	53.43	N	
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	☆	L
ROANOKE/POOR MT	WB8BON	52.09	53.09	N	CI

MORE VIRGINIA REPEATERS

PACKET

ACCOMAC	KJ4AG-1	145.01	☆	K
ACCOMAC	KJ4AG-3	145.03	☆	K
AFTON MT.	W4BLD-2	145.03	☆	K
BEAR DEN MT	W4BLD-1	145.01	☆	K
BLAND	N4AZJ-1	145.01	☆	K
BLUEFIELD	WB4BBF-1	145.01	☆	KO
CHARLOTTESVILLE	WA4TFZ-2	145.03	☆	K
CHESAPEAKE	N4SD-1	145.01	☆	K
COVINGTON	WA4PGI-1	145.01	N	K
FANCY GAP	WA4LWE-1	145.01	N	K
FORK MTN	WA4FRV-3	145.01	N	K
FREDERICKSBURG	KB4OB-1	145.01	M	K
GARRISONVILLE	AA4PB-1	145.01	N	K
GRUNDY/GDY	KK4EH-1	145.01	N	K
HAMPTON	K4UMI-5	145.01	N	K
LYNCHBURG	K4LKQ-1	145.01	N	K
MARION	N4IQV-1	145.01	☆	K
MIDDLEBURG	WA4TSC-1	145.01	N	K
NASSAWADOX	KJ4AG-2	145.01	☆	K
NORTON/HI KNOB	KC4IH-1	145.01	N	K
PEARISBURG	N4KZL-2	145.01	☆	K
PETERSBURG	K4ARO-1	145.01	☆	K
RICHMOND	K4ARO-2	145.05	N	K
ROANOKE	N4FHL-1	145.01	N	K
ROANOKE	N4MGQ-9	145.01	N	K
ROANOKE	WB4QOJ-1	145.07	N	K
STEPHENS CITY	W3CSG	145.01	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	☆	K
WASHINGTON, D.C.	WB4JFI-5	145.01	N	K
WOODBRIDGE	WB4FQR-4	145.01	N	K
WOODBRIDGE	KA4USE-1	145.07	N	K
WYTHEVILLE	N4KZL-1	145.01	☆	K
WYTHEVILLE	N4KZL-9	145.01	N	K

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	N	
ALCOLU	N4LWY	144.85	145.45	☆	P
ANDERSON	N4SZ	146.37	146.97	☆	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	☆	
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	☆	
BIG KNOB/GREY CT	KB4YF	146.265	146.865	☆	
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	K4ILT	146.19	146.79	N	
CHARLESTON	WB4LET	147.87	147.27	☆	PA
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	KA4ABW	147.735	147.135	N	PA
COLUMBIA	KC4LB	144.83	145.43	☆	PA
COLUMBIA	WB4NEP	146.115	146.715	N	PA
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	N4NUY	147.93	147.33	N	
CONWAY	WD4JMT	144.51	145.11	☆	
DILLON/PEE DEE	NN4N	146.145	146.745	☆	
DORCHESTER	W4NAT	147.78	147.18	☆	
FLORENCE	W4ULH	146.25	146.85	N	A
FLORENCE	WA4ISM	146.37	146.97	☆	PA
FT JACKSON	WA4PTC	146.16	146.76	N	
FT MILL/CAROWND	AA4SC	147.78	147.18	☆	
GASTON	WB4NEP	144.61	145.21	N	PA
GEORGETOWN	WD4DMI	147.975	147.375	N	
GREENVILLE	W4IQQ	146.34	146.94	N	
GREENVILLE	K4LEO	147.975	147.375	☆	T
GREENWOOD	KB4YF	147.765	147.165	☆	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	☆	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	☆	PA
HILTON HEAD	N1BAL	147.84	147.24	N	
INMAN	WD8OXE	144.87	145.47	☆	PA
LAKE MARION	W4DTW	147.825	147.225	☆	A
LANCASTER	W4PAX	146.10	146.70	☆	
LANCASTER	WB4BGF	147.84	147.24	N	
LEXINGTON	KA4FEC	147.99	147.39	☆	
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.385	146.985	N	PA
MT. PLEASANT	K4LWS	147.90	147.30	N	PAT
MYRTLE BEACH	WD4JMT	146.01	146.61	☆	EA
MYT BEA/BRKSVLLE	W4DCD	147.885	147.285	☆	A
N. AUGUSTA	K4FKJ	146.13	146.73	☆	
N. MYRTLE BEACH	K4HOG	147.63	147.03	☆	PA
NEWBERRY	KB4CO	146.085	146.685	N	
ORANGEBURG	K4RDN	147.69	147.09	N	C
PICKENS	WB4YXZ	146.40	147.00	N	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	☆	A
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	N4CWZ	146.325	146.925	N	PA
ROCK HILL	K4YTZ	146.43	147.03	☆	PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WD4BJY	146.13	146.73	N	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
ST. MATTHEWS	AD4U	146.22	146.82	N	P
SUMTER	WS4P	146.04	146.64	☆	
SUMTER	WA4UMU	147.615	147.015	☆	EA
SUMTER/SHAW	W4VFR	147.66	147.06	☆	A
WHITE HALL	W4BWZ	146.31	146.91	N	

BUY YOUR EQUIPMENT FROM OUR REPEATER JOURNAL ADVERTISERS TELL THEM YOU SAW THEIR AD IN THE REPEATER JOURNAL!

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	☆	RB
CROSS	KB4VFD	222.98	224.58	☆	C
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	☆	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	N	PA
PICKENS/SASFR MT	AJ4N	222.46	224.06	N	
RIDGEVILLE	N4CII	222.48	224.08	☆	C

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925	N	
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
CHARLESTON	N4MNH	449.30	444.30	☆	A
CROSS	KB4VFD	447.30	442.30	☆	C
LEXINGTON	N4GUP	439.25	421.25	N	V
MT PLEASANT	N4DRU	449.70	444.70	N	
PARIS MT	WB4HKZ	448.10	443.10	N	P
PICKENS/CSRS HD	WA6WAY	447.00	442.00	N	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	448.80	443.80	☆	
SUMTER	WA4UMU	439.25	423.25	☆	V
SUMTER/SHAW	WB4USY	449.525	444.525	☆	P

6 METERS

COPE	N4HSN	52.05	53.05	N
PICKENS	WB4YXY	52.41	53.41	N

PACKET

ANDERSON	KA4YEA-1	145.07	☆	K
ANDERSON/SAS MT	W4FX-1	145.01	☆	K
CHARLESTON	N4LYF-1	145.01	N	K
CHARLESTON	WD4NUN-9	145.01	N	K
CHARLESTON	WN4Y-5	145.05	N	K
COLUMBIA	N4EOY-1	145.01	☆	K
COLUMBIA	N4HWU-1	145.03	☆	K
COLUMBIA	N4EOY-5	145.05	☆	K
CONWAY	WA4TKM-1	145.01	N	K
CROSS	KB4VFD-4	145.05	☆	K
FLORENCE	W4ULH-1	145.01	N	K
LANCASTER	K4WJR-1	145.01	N	K
SUMTER	WS4P-1	145.01	☆	K

SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00	N	
BRISTOL	WB4DKI	146.07	146.67	☆	A
BRISTOL	WD4CYZ	146.28	146.88	N	
BRISTOL/HLSTN MT	K4LSP	146.16	146.76	N	A
BROWNSVILLE	WA4ABU	146.055	146.655	N	
BROWNSVILLE	KB4YTU	146.16	146.76	N	C
CARTHAGE	N4OTT	144.59	145.19	N	C
CHATT/SIGNAL MT	KW4Z	146.055	146.655	☆	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	PA
CHATTANOOGA	K4VCM	144.69	145.29	☆	
CHATTANOOGA	KB4TZ	144.79	145.39	☆	A
CHATTANOOGA	K4CMY	146.01	146.61	☆	
CHATTANOOGA	W4DSK	146.19	146.79	☆	A
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLARKSVILLE	N2BVO	147.675	147.075	N	
CLARKSVILLE	AA4TA	147.99	147.39	☆	
CLEVELAND	W4MEP	146.31	146.91	N	C
COOKEVILLE	WA4UCE	144.83	145.43	N	A
COOKEVILLE	K4HKZ	147.645	147.045	N	C
COOKEVILLE	N4WS	147.81	147.21	☆	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	☆	
CROSSVILLE	W4CV	147.93	147.33	N	
CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	☆	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FRANKLIN	WB4HCK	144.55	145.15	N	RB
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GERMANTON	KA4ATI	147.69	147.09	N	
GRAY	WD4SBX	147.99	147.39	☆	A
GREENEVILLE	K4EPC	144.79	145.39	☆	
GREENEVILLE	WB4TUO	144.81	145.41	☆	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	N	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LEA
GUTHRIE (TN/KY)	KA4NNE	146.205	146.805	N	
HARRIMAN	WA4RHV	147.615	147.015	N	C
HENDERSONVILLE	WB4WZK	144.67	145.27	☆	
HENDERSONVILLE	N4WF	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	N	
HICKORY VALLEY	KA5TAG	144.73	145.33	☆	L
HOLSTON MT/E TN	WB4SQC	144.69	145.29	☆	PA
HUMBOLDT	NQ4Y	144.75	145.35	N	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JAMESTOWN	KE4JE	144.55	145.15	N	
JASPER	KD4XX	144.59	145.19	N	
JASPER	N4HQT	147.915	147.315	N	
JOHNSON CITY	W4ABR	146.19	146.79	N	A
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	☆	PA
KNOXVILLE	N4IJL	144.51	145.11	N	
KNOXVILLE	W4BBB	144.61	145.21	☆	A
KNOXVILLE	WA4TEM	144.73	145.33	☆	AL
KNOXVILLE	N4GRC	144.77	145.37	☆	
KNOXVILLE	N4IUA	144.83	145.43	N	
KNOXVILLE	WB4GBI	144.87	145.47	☆	
KNOXVILLE	WB4GBI	146.025	146.625	☆	C
KNOXVILLE	WB4GBI	146.34	146.94	☆	
KNOXVILLE	WB4GBI	147.675	147.075	☆	A
KNOXVILLE	W4BBB	147.90	147.30	☆	
KNXVL/CROSS MT	KA4OAK	147.96	147.36	N	
KNXVL/ENG MT	WB4IOB	146.13	146.73	☆	
LAFOLLETTE	KA4OAK	144.53	145.13	N	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	N	
LAKE CITY	WB4OAH	146.22	146.82	N	
LAVERNE	KJ4RA	144.63	145.23	N	
LENOIR CITY	KB4PIO	146.085	146.685	N	C
LEXINGTON	WB4LGH	146.43	147.03	N	
LOUDON	KE4V	144.57	145.17	☆	
MANCHESTER	W4UOT	146.10	146.70	☆	PA
MARTIN	WA4ZQX	146.025	146.625	☆	
MCMINNVILLE	WD4MWQ	146.37	146.97	☆	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	☆	
MEDINA	K4BEZ	146.37	146.97	N	A
MEM/FISHERVILLE	N4DRL	144.65	145.25	☆	AL
MEMPHIS	KOJXI	144.55	145.15	N	
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	WB4KQQ	146.04	146.64	☆	EA
MEMPHIS	W4UFT	146.10	146.70	N	
MEMPHIS	WB4DAZ	146.13	146.73	☆	PA
MEMPHIS	K4FZJ	146.19	146.79	N	
MEMPHIS	W4BS	146.22	146.82	☆	PA
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	☆	A
MEMPHIS	K4BN	146.34	146.94	☆	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4ZJM	146.43	147.03	N	L
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	KA4GMV	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WA4OWI	147.87	147.27	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON	W4ODR	147.63	147.03	N	L
MORRISTOWN	WD4PRQ	147.63	147.03	N	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	KI4OG	144.77	145.37	☆	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	N	EA
NASHVILLE	W4PQP	146.16	146.76	☆	
NASHVILLE	W4SQE	146.19	146.79	☆	
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	N	
NASHVILLE	N4AJS	147.93	147.33	N	
NASHVILLE S.	WB4NTM	147.96	147.36	N	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	N	EA
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	☆	
OAK RIDGE	K4EAJ	147.75	147.15	☆	RL
PARIS	K4KLX	147.96	147.36	N	A
PETROS	KJ4SI	147.855	147.255	☆	
PIKEVILLE	K4MJM	147.885	147.285	☆	
PINSON	WB0TMC	147.87	147.27	N	C
POLK CTY/OSWALD	WD4DES	147.78	147.18	N	
PULASKI/MUSIC MT	W4JVO	146.175	146.775	☆	EA
PURYEAR	WA4CEX	147.765	147.165	☆	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27	N	
SHELBYVILLE	W4QEB	147.66	147.06	☆	A
SHORT MTN	W4YXA	146.31	146.91	☆	
SMYRNA	WB4LHO	144.57	145.17	N	PA
SPARTA/BON AIR	W4BSA	147.69	147.09	N	A
SPRING HILL	NW4E	144.85	145.45	N	A
STANTONVILLE	KF4VM	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	☆	A
UNION CITY	WA4YGM	147.615	147.015	☆	
WATERTOWN	KE4WA	146.13	146.73	N	PA
WAVERLY	NO4Q	146.085	146.685	N	
WINCHESTER	N4NCM	146.22	146.82	☆	

220 MHZ

BROWNSVILLE	KB4YTU	222.60	224.20	N	C
BROWNSVILLE	KB4YTU	222.80	224.40	N	C
CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	WD4MQG	223.04	224.64	N	PA
CHATTANOOGA	K4VCM	223.18	224.78	☆	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
CLARKSVILLE	AA4TA	222.56	224.16	☆	
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	N	
GREENEVILLE	WB4NKM	223.34	224.94	☆	A
HERMITAGE	WB4RAB	222.30	223.90	N	
HICKORY VALLEY	KA5TAG	222.58	224.18	☆	L
JOHNSON CITY	WA4UCI	223.18	224.78	N	C
KNOXVILLE	WA4YON	222.86	224.46	N	
KNOXVILLE	W4BBB	222.90	224.50	☆	
KNOXVILLE	WA4TEM	223.26	224.86	☆	L
MEM/FISHERVILLE	N4DRL	222.90	224.50	☆	L
MEMPHIS	WA4KOG	223.18	224.78	N	C
MT. JULIET	KE4NP	222.66	224.26	N	
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4MEY	222.52	224.12	N	C
NASHVILLE	N4AWB	222.62	224.22	N	
NASHVILLE	KI4OG	222.84	224.44	☆	
NASHVILLE	N4MEY	223.06	224.66	N	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
BENTON/BEAN MT	K4SIR	449.95	444.95	N	
BRISTOL/HLST MT	K4LSP	449.50	444.50	N	ARB
BROWNSVILLE	KB4YTU	448.90	443.90	N	C
BROWNSVILLE	KB4YTU	449.45	444.45	N	C
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	WA4NFO	449.10	444.10	☆	A
CHATTANOOGA	WB4LRD	449.875	444.875	N	

MORE TENNESSEE REPEATERS

CUMBERLAND CITY	N4GMT	448.40	443.40	N	
ELIZ/HOLSTON MT	WB4BFS	449.75	444.75	N	
FAYETTEVILLE	KO4G	448.10	443.10	N	
FRANKLIN	KA4IDB	448.85	443.85	N	
GALLATIN	WD4KWP	449.45	444.45	N	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GREENEVILLE	WB4NKM	449.65	444.65	☆	
HICKORY VALLEY	KA5TAG	448.20	443.20	☆	L
JACKSON	WA4BJY	447.20	442.20	N	
JACKSON	WB4EPG	447.80	442.80	N	A
JASPER	KD4XX	447.05	442.05	N	
JASPER	N4HQT	447.25	442.25	N	
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4KSL	449.50	444.50	N	
KNOXVILLE	KB4NK	449.60	444.60	N	
LAKE CITY	WD4LUR	448.00	443.00	N	C
LAKE CITY/CRS MT	WD4LUR	448.00	443.00	☆	PA
MEDINA	K4BEZ	447.05	442.05	N	AL
MEM/FISHERVILLE	N4DDS	449.30	444.30	☆	L
MEMPHIS	N4ERU	421.25	439.25	N	V
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	WF4G	447.825	442.825	N	
MEMPHIS	WA4QWW	448.00	443.00	N	O
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	WA4ADT	449.00	444.00	N	
MEMPHIS	K4RDK	449.025	444.025	N	
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	WA4ETE	449.25	444.25	N	
MEMPHIS	WA4KOG	449.40	444.40	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A
MEMPHIS	KOJXI	449.60	444.60	N	
MEMPHIS	WB4MMI	449.70	444.70	N	T
MEMPHIS	KOJXI	449.80	444.80	N	
MEMPHIS	WB4MMI	449.90	444.90	N	L
MEMPHIS	WA4ETE	449.925	444.925	N	
MEMPHIS	WB4KQQ	449.95	444.95	☆	
MEMPHIS	K4HPP	449.975	444.975	N	
MILAN	WD4ABJ	447.10	442.10	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
MT JULIET	WA4PUB	448.05	443.05	N	
NASHVILLE	KI4OG	449.05	444.05	☆	T
NASHVILLE	KI4OG	449.575	444.575	☆	C
NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	☆	L
PARIS/GROVE HL	WA4WKS	448.50	443.50	N	
SMYRNA	KJ4RM	449.25	444.25	N	

920 MHZ

HICKORY VALLEY	KA5TAG	907.10	919.10	☆	L
MEM/FISHERVILLE	N4DRL	909.10	921.10	☆	L

1270 MHZ

HICKORY VALLEY	KA5TAG	1271.20	1291.20	☆	L
MEM/FISHERVILLE	N4DRL	1271.10	1291.10	☆	L

10 METERS

DONELSON	WA4BZU	29.54	29.64	N	
HICKORY VALLEY	KA5TAG	29.54	29.64	☆	L
JACKSON	NQ4W	29,54	29.64	N	P
JASPER	KD4XX	29.58	29.68	N	
KNXVL/ENG MT	WB4IOB	29.52	29.62	☆	P
MEM/FISHERVILLE	N4DRL	29.58	29.68	☆	L
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	N	

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.19	53.19	N	
GALLATIN	WD4KWP	52.45	53.45	N	
GUTHRIE (TN/KY)	KA4ZKL	52.23	53.23	N	
HICKORY VALLEY	KA5TAG	52.67	53.67	☆	L
KNOXVILLE	WA4YON	52.25	53.25	N	
KNOXVILLE	WB4GBI	52.35	53.35	☆	
KNXVL/ENG MT	WB4IOB	52.15	53.15	☆	A
MEM/FISHERVILLE	N4DRL	52.27	53.27	☆	L
MEMPHIS	WA4KOG	52.01	53.01	N	
MEMPHIS	K4RDK	52.55	53.55	N	

PACKET

BRISTOL	WX4S-1	145.01	N	K
CASTALIAN SPRNGS	WA4PTZ	145.01	☆	K
CHATTANOOGA	W4DSK-1	145.01	N	K
CROSSVILLE	N4LLD-1	145.01	N	K
GALLTN/MUSIC MT	W4PTZ-1	145.01	N	K
GREENEVILLE	K4VZZ-1	147.48	N	K
HORNBEAK	WA4VVX-6	145.01	N	K
JACKSON	WA4VVX-7	145.01	N	K
JACKSON	WB7BOX-1	145.01	N	K
JACKSON	WB7BOX-2	221.11	N	K
KINGSPORT	N4NBX	145.04	N	K
KNOXVILLE	KC4OI	145.01	N	K
KNOXVL/CROSS MT	WA4YON-1	145.01	N	K
LOBOVILLE	WA4VVX-2	145.01	N	K
MEMPHIS	WA4KQQ-1	145.01	N	K
MEMPHIS	AI5R	145.01	N	K
MEMPHIS	WA4KQQ	446.50	N	K
NASHVILLE	WA4KDC-2	145.01	N	K
NASHVILLE	W4HHY	145.01	N	K
NASHVILLE	WA4KDC	433.80	N	DL
PIKEVILLE	K4MJM-1	145.01	☆	K
RIPLEY	WA4VVX-3	145.01	N	K
RIPLEY	WA4VVX-5	443.80	N	DL
ROCKWOOD	AA4KS-1	147.48	N	K
ROCKWOOD MT	KB4NK-1	145.01	☆	K
SEWANEE	WD4CPF-1	145.01	N	K
SEWANEE	WD4CPF-2	433.80	N	DL
SHORT MT	W4YXA-1	145.01	☆	K
SHORT MTN	W4YXA	433.80	N	DL
WAVERLY	WA4VVX-4	433.80	N	DL
WINCHESTER	WD4CPF	145.01	N	K

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KD4SN	146.34	146.94	☆	
ASHLAND	KA4DII	147.84	147.24	N	PA
ASHLAND	WA8KWH	147.93	147.33	☆	A
DEANE	AK4U	144.61	145.21	☆	L
DOG FORK MT	N4MWA	147.75	147.15	N	
ELKHORN CITY	WB4WAU	147.60	147.00	N	PA
FLAT GAP	KB4NDB	147.69	147.09	N	O
GRAYSON	KF4JO	146.10	146.70	N	
GUTHRIE	KA4NNE	146.205	146.805	N	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	☆	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	☆	PA
LOUISA	WA4SWF	146.13	146.73	☆	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MAYTOWN	AK4U	146.28	146.88	☆	L
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	N	
MT. STERLING	WD4KNE	147.93	147.33	N	
PAINTSVILLE	AK4U	146.19	146.79	☆	L
PHELPS	KJ4YK	147.69	147.09	☆	
PIKEVILLE	N4IWZ	144.55	145.15	☆	PA
PIKEVILLE	N4IXA	146.25	146.85	N	EAL
PIKEVILLE	WB4GEL	147.87	147.27	☆	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	☆	RB
SALYERSVILLE	AK4U	147.90	147.30	☆	L
WASHINGTON	WA4WMM	144.87	145.47	N	C
WINCHESTER	WB4ASZ	147.72	147.12	☆	EA

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
PIKEVILLE	WB4F	222.98	224.58	N	
PIKEVILLE	N4ETG	223.02	224.62	N	A

440 MHZ

ASHLAND	WB4TAT	449.975	444.975	☆
LYNCH/BLACK MT	N4IZD	448.10	443.10	N

6 METERS

FLAT GAP	N4MPM	52.45	53.45	N
GUTHRIE	KA4ZKL	52.23	53.23	N

PACKET

ASHLAND	KD4SN-1	145.01	N	K
BEREA	KA4MZY-1	145.01	N	K
ELIZABETHTOWN	W4BEJ-1	145.01	N	K
ELKHORN CITY	WB4WAU-1	145.01	N	K
FRANKFORT	KB4AGA-1	145.01	N	K
FRANKFORT	KB4AGA	145.01	N	K
GREENSBURG	N4ICS	145.01	N	K
HAZARD	K4AVX-1	145.01	N	K
LEXINGTON	KF4NB-BBS	145.01	N	K
LEXINGTON	W4AUZ-1	145.01	N	K
LEXINGTON	WA4JAV-BB	145.01	N	K
LOUISA	WA4SWF-1	145.01	N	K
LOUISVILLE	W4MOP-1	145.01	N	K
PRESTONSBURG	WA4FHK-1	145.01	N	K
VERSAILLES	WB9TPG-1	145.01	N	K
WHITESBURG	KB4TTQ-1	145.01	N	K
WINCHESTER	WB4FDK	145.01	N	K
WINCHESTER	WB4FDK-1	145.01	N	K

GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ALBANY	W4MM	144.55	145.15	N	L
ALBANY	W4MM	146.10	146.70	N	
ALBANY	W4MM	146.13	146.73	N	
ALBANY	W4MM	146.22	146.82	N	
ALBANY	W4MM	147.72	147.12	N	K
ALBANY	WB4TFW	147.75	147.15	N	
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	W4PVW	147.885	147.285	☆	EA
ATHENS	WA4BKF	146.145	146.745	☆	A
ATHENS	K4TQU	147.975	147.375	N	
ATLANTA	W4AQL	144.55	145.15	☆	PA
ATLANTA	K4DRQ	144.69	145.29	☆	
ATLANTA	W4DOC	144.75	145.35	N	
ATLANTA	W4DOC	146.22	146.82	N	PA
ATLANTA	N4OD	146.37	146.97	N	
ATLANTA	WA4NNO	146.40	147.00	N	PA
ATLANTA	K4YSB	147.705	147.105	☆	R
ATLANTA	K4SMX	147.795	147.195	N	T
ATLANTA	WD4KDT	147.855	147.255	☆	PAL
ATLANTA/AIRPORT	W4REI	147.63	147.03	N	
ATLANTA/BELL	W4PME	144.81	145.41	☆	
ATLANTA/GPCO	WA4VBX	147.885	147.285	☆	
ATLANTA/MARIETTA	N4NFP	146.055	146.655	☆	EAL
ATLANTA/MARIETTA	N4NEQ	147.94	147.34	☆	PANB
ATLANTA/STONE MT	W4BOC	146.16	146.76	☆	
ATLANTA/SWEAT MT	K4LCI	144.83	145.43	N	EA
ATLANTA/SWEAT MT	N4CLA	144.87	145.47	☆	EA
ATLANTA/SWEAT MT	KD4NC	146.13	146.73	☆	K
AUGUSTA	W4TUN	144.51	145.11	☆	A
AUGUSTA	AA4UA	144.77	145.37	N	A
AUGUSTA	N4JA	144.89	145.49	☆	
AUGUSTA	W4LWT	146.04	146.64	☆	
AUGUSTA	KT4N	146.34	146.94	N	
AUGUSTA	NA4I	146.385	146.985	☆	PA
AUGUSTA	NI4S	147.72	147.12	N	PA
AUGUSTA	N4BMA	147.78	147.18	N	RPA
AUGUSTA/GRNS CUT	WD4COL	144.63	145.23	N	A
BALDWIN	WD4NHW	147.78	147.18	☆	A
BIRMINGHAM(AL)	N4IQT	144.59	145.19	N	
BONAIRE	W4MST	147.615	147.015	☆	
BRUNSWICK	WB4PXX	144.81	145.41	N	P
BRUNSWICK	K4TVE	146.13	146.73	N	
CAIRO	AA4RD	147.795	147.195	N	
CALHOUN	KC4AQS	147.405	146.805	☆	LA
CARROLLTON	W4FWD	146.04	146.64	N	A
CARTERSVILLE	N4GIS	144.59	145.19	N	
CEDARTOWN	W4CMA	147.72	147.12	☆	PA
CLAYTON	WA4BLQ	144.65	145.25	☆	
CLEVELAND/LONG	K4FOW	146.31	146.91	N	
CLEVELAND/LONG	K4FOW	147.615	147.015	N	
COLUMBUS	KA4CEK	144.71	145.31	N	
COLUMBUS	WB4MLE	146.01	146.61	N	
COLUMBUS	N4AGO	146.28	146.88	N	
COLUMBUS-RTTY	K4ACH	144.77	145.37	N	R
CONYERS	WB4JEH	144.63	145.23	N	
CONYERS	KE4SG	147.81	147.21	N	PA
COOLIDGE	N4JBF	144.57	145.17	☆	P
CORDELE	WA4RWS	144.89	145.49	☆	
COVINGTON	WA4ASI	146.325	146.925	N	
CUMMING/SAWNEE	K4BYK	147.75	147.15	☆	PAL
DALLAS	K4DVJ	146.25	146.85	N	
DALONEGA	KJ4EV	146.835	147.435	N	
DALTON	KE4UJ	144.63	145.23	N	
DALTON	N4BZJ	144.65	145.25	☆	AO
DALTON	N4BZJ	147.735	147.135	☆	AL
DALTON	KE4LN	147.81	147.21	☆	
DECATUR	W4VTA	144.51	145.11	☆	EA
DOUGLAS	KB4TCU	147.765	147.165	N	
DOUGLASVILLE	KB4EO	147.96	147.36	N	A
DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY/TALONA M	W4HHH	146.385	146.985	☆	A
FARMINGTON	N4NFA	147.645	147.045	☆	A
FAYETTEVILLE	K4UWN	146.085	146.685	N	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
FORSYTH	W4SPJ	147.315	147.915	N	
FORT PAYNE(AL)	WA4PJE	147.87	147.27	N	A
GAINESVILLE	W4NSO	146.07	146.67	☆	A
GRIFFIN	K4HYB	144.79	145.39	☆	PA
GRIFFIN	K4HYB	146.31	146.91	☆	
HARTWELL	KY4T	146.895	146.295	N	EA
HINESVILLE	KF4UM	147.615	147.015	☆	
IRWINTON	WB4NFG	147.84	147.24	N	
JASPER	KB4IZF	144.77	145.37	☆	PA
JASPER	W4OOM	146.10	146.70	☆	
JASPER(AL)	WB4ACN	146.30	146.90	N	
JEFFERSON	KB4ZUN	147.825	147.225	N	
JESUP	WA4EQL	146.07	146.67	☆	
JONESBORO	WA4DIW	144.57	145.17	☆	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAFAYETTE	KB4VEK	147.975	147.375	N	
LAGRANGE	KO4R	146.25	146.85	N	O
LAGRANGE	WB4BXO	147.93	147.33	N	EA
LANETT(AL)	K4DXZ	147.60	147.00	☆	
LEEDS(AL)	N4IQT	146.08	146.68	N	
LINEVILLE(AL)	WB4VBA	144.83	145.43	☆	
LYONS	K4HAO	146.22	146.82	N	
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	☆	NBPA
MACON	WA4DDI	147.66	147.06	☆	T
MADISON	WB4DKY	146.265	146.865	N	
MARIETTA	WA4QPL	144.89	145.49	N	PA
MARIETTA	KC4KE	146.175	146.775	☆	
MARIETTA	W4BTI	146.28	146.88	N	
METTER	W4TYM	147.645	147.045	N	
MILLEDGEVILLE	KF4LI	144.55	145.15	☆	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	N	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	☆	PA
NEWNAN	K4SEX	146.19	146.79	☆	
PERRY	KB4KIN	146.355	146.955	N	A
PERRY	WL7ACY	147.90	147.30	☆	A
PINE MT/HAMILTON	WB4ULJ	144.59	145.19	N	
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROCKY TOP MT	K5PRE	146.355	146.955	N	
ROME	K4HNM	147.90	147.30	N	
ROME/MT. ALTO	W4VO	146.34	146.94	☆	PA
ROSSVILLE	W4FGQ	144.75	145.35	☆	
ROSWELL	N4CLA	147.66	147.06	☆	EA
SAVANNAH	K4NLX	146.10	146.70	☆	PA
SAVANNAH	W4HBB	146.28	146.88	N	
SAVANNAH	W4HBB	146.37	146.97	N	A
SAVANNAH	K4NLX	147.81	147.21	☆	PA
SNELLVILLE	WD4JXR	147.675	147.075	☆	PA
ST SIMONS ISL	KA4CVE	147.69	147.09	N	
ST. MARYS	KA4UUB	146.385	146.985	N	
STATESBORO	NC4D	147.705	147.105	N	
STOCKBRIDGE	WA4JDR	144.71	145.31	N	
STONE MT	W4BOC	144.85	145.45	☆	
SUMMERVILLE	KA4LVY	147.825	147.225	N	
SWAINSBORO	K4VYX	146.19	146.79	N	O
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	N	A
THOMPSON	WB4OCB	146.235	146.835	N	C
TOCCOA	KA4DIP	147.93	147.33	☆	
TYRONE	W4PSZ	144.61	145.21	N	PA
UNION CITY	WA4UPE	146.025	146.625	N	
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625	☆	A
WALESKA/PNLGMT	KE4PN	144.67	145.27	☆	L
WARNER ROBINS	WB4BDP	146.01	146.61	N	
WARNER ROBINS	W4HON	146.25	146.85	N	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WAYNESBORO	WD4COL	144.63	145.23	N	
WRENS	WB4OCB	146.175	146.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	

220 MHZ

ATL/CHESTNUT MT	W4DOC	222.96	224.56	N	L
ATLANTA	N4BLR	222.68	224.28	N	
ATLANTA	W4DOC	222.74	224.34	N	
ATLANTA	N4IQR	223.10	224.70	☆	
ATLANTA	KK4C	223.22	224.82	N	PAL
ATLANTA/BELL	W4ZTL	223.02	224.62	N	
ATLANTA/MARIETTA	N4NFP	222.52	224.12	☆	PAL
AUGUSTA	AA4UA	222.60	224.20	N	P
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	N	L

SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE GEORGIA REPEATERS

CANTON	N4KSM	222.92	224.52	N	
CANTON	WB4UPC	223.34	224.94	☆	L
CARTERSVILLE	N4GIS	222.48	224.08	N	
CLEVELAND	N4RBT	222.78	224.38	N	
CONYERS	WB4JEH	222.42	224.02	N	
CORNELIA	WS4F	222.50	224.10	N	
CUMMING/SAWNEE	K4JSR	223.38	224.98	☆	PAL
DALTON	N4BZJ	222.44	224.04	☆	
DALTON	N4KVC	223.14	224.74	☆	ARB
GAINESVILLE	W4NSO	222.30	223.90	☆	
JASPER	KB4IZP	222.40	224.00	N	
MACON	W4BKM	223.06	224.66	☆	
MARIETTA	WA4QPL	223.30	224.90	N	
PERRY	WL7ACY	223.24	224.84	☆	
ROSSVILLE	KC4EV	223.34	224.94	N	
STONE MT	W4BOC	223.16	224.76	☆	PA
THOMASVILLE	N4JBF	222.72	224.32	☆	A
VALDOSTA	W4APS	222.38	223.98	N	
YORKVILLE	WB4UPC	222.34	223.94	N	

440 MHZ

ALBANY	W4MM	439.25	427.25	N	
ALBANY	W4MM	449.50	444.50	N	
ATLANTA	W4KIP	439.25	421.25	N	V
ATLANTA	W4DOC	444.825	449.825	N	NB
ATLANTA	WB8LVH	448.50	443.50	☆	
ATLANTA	KE4ZV	448.65	443.65	N	
ATLANTA	W4DOC	449.45	145.67	N	RB
ATLANTA	WB4UWL	449.50	444.50	N	
ATLANTA	N4WQ	449.625	444.625	N	AO
ATLANTA	WA4NNO	449.925	444.925	N	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	W4ZTL	449.15	444.15	☆	A
ATLANTA/MARIETTA	N4NEQ	449.775	444.775	N	PAL
ATLANTA/MARIETTA	N4NFP	449.85	444.85	☆	PA
ATLANTA/SE	WB8LVH	448.55	443.55	☆	NB
ATLANTA/STONE MT	W4BOC	449.25	444.25	☆	
AUGUSTA	N4JA	447.025	442.025	☆	
AUGUSTA	NI4S	448.15	443.15	N	O
AUGUSTA	NA4I	449.95	444.95	☆	O
BRUNSWICK	KB4PXX	439.25	421.25	N	V
BRUNSWICK	K4TVE	449.975	444.975	N	
CHATSWORTH	AA4EO	448.00	443.00	N	
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB4JEH	447.55	442.55	N	
CONYERS	N4EMM	449.75	444.75	N	C
COVINGTON	KL7TF	448.75	443.75	☆	
DALTON	WA4TIW	449.725	444.725	N	
DECATUR	N3APR	449.10	444.10	N	
DECATUR	WB4LBM	449.20	444.20	N	
ELLIJAY TALONA M	W4HHH	449.70	444.70	☆	
GRIFFIN	WB4GWA	448.90	443.90	N	PA
HIGH PT/LOOKT MT	KB4VEK	448.45	443.45	N	
JASPER/BIG BUCK	N4OKS	448.80	443.80	N	
LANETT(AL)	K4DXZ	447.05	442.05	☆	
LAWRENCEVILLE	WB4QDX	449.00	444.00	N	
LINEVILLE (AL)	WB4VBA	449.000	444.000	☆	
MACON	WB4OLL	444.90	449.90	N	NB
MARIETTA	N4ACJ	448.60	443.60	N	
MARIETTA	K4PQD	449.05	444.05	N	
MARIETTA	N4ACJ	449.325	444.325	N	
MT OGELTHORPE	WB4BFD	449.375	444.375	N	
NEWNAN	N4EBZ	449.675	444.675	☆	PA
PERRY	KB4KIN	449.95	444.95	N	
RINGGOLD	KJ4IU	448.925	443.925	N	
ROCKY FACE	AA4EO	447.175	442.175	N	
SAVANNAH	KC4AZU	447.70	442.70	N	C
SMYRNA	N4IBW	449.65	444.65	N	
STONE MT	N4MSE	449.025	444.025	N	
SWEAT MT	N4CLA	448.20	443.20	☆	
TIFTON	KF4JF	449.35	444.35	N	
TYRONE	K4NEF	449.55	444.55	N	
VALDOSTA	W4APS	449.70	444.70	N	
WALESKA/PNLOG MT	WD4GTJ	448.85	443.85	☆	L

10 METERS

ALBANY	W4MM	29.58	29.68	N	L
ATL/MARIETTA	KK4CC	29.54	29.64	☆	L
ATLANTA	WB8LVH	29.52	29.62	☆	L
CONYERS	AI8K	29.58	29.68	N	P
DALTON	N4BZJ	29.58	29.68	☆	AL

6 METERS

ATL/MARIETTA	WA4MPW	52.09	53.09	☆	
AUGUSTA	K4EDU	52.03	53.03	N	P
CONYERS	WB4JEH	52.55	53.55	N	
LINEVILLE(AL)	WB4VBA	52.07	53.07	☆	
WALESKA/PNLOG MT	WB4UPC	52.05	53.05	☆	L

1270 MHZ

ATL/CHESTNUT MT	W4DOC	1291.40	1271.40	N	

PACKET

ADEL	KF4JF-1		145.01	N	K
ALBANY	W4MM-1		145.09	N	K
AMICACOLA MT	WB4GQX-4		145.09	N	K
ATLANTA/EAST	KF4JJ-1		145.03	N	K
ATLANTA/EAST	KE4ZV-1		145.03	N	K
AUGUSTA	WD4CNV-1		145.01	N	K
CLARKSVILLE	W4EAW-1		145.01	N	K
COHUTTA	W4KAU		145.01	N	K
COHUTTA	W4KAU		145.09	N	K
COLUMBUS	K4ABT-1		145.01	N	K
CUMMING/SAWNEE	WB4GQX-1		145.01	N	K
FAIRMONT	AA4EO-1		145.09	N	K
FORSYTH	WB4GQX-2		145.01	N	K
HAMPTON	WA4TXT-1		145.01	N	K
LAGRANGE	WB4BXO-1		145.03	N	K
LYONS	N4JWP-1		145.01	N	K
PERRY	KB4KIN-1		145.01	N	K
PERRY	KB4KIN-5		145.05	N	K
PINE MT/HAMILTON	WB4ULJ-1		145.01	N	K
ROME	NC4G-1		145.09	N	K
SAVANNAH	K4NLX-2		145.01	☆	K
SAVANNAH	K4NLX-1		145.03	☆	K
SAWNEE MT/CUMMIN	WB4GQX-1		223.70	N	K
SYCAMORE	WD4LYV		145.01	N	K
SYCAMORE	WD4LYV		145.05	N	K
WARNER ROBINS	K4AGT-1		145.01	N	K

WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/EOC	N8FWL	144.77	145.37	N	LA
BECKLEY/FLAT TOP	K8BO	146.25	146.85	N	A
BLUEFIELD	W8MOP	144.89	145.49	☆	PA
BOLT/BOLT MT	N8DKL	144.57	145.17	☆	L
BRIDGEPORT	WB8DKM	147.72	147.12	☆	
BUCKHANNON	N8FHE	144.53	145.13	☆	AL
BUCKHANNON	N8FHE	144.81	145.41	☆	
BUCKHANNON	WD8L	146.25	146.85	☆	
CHARLESTON	N8FMD	144.69	145.29	☆	L
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CHARLESTON	KD8TC	147.81	147.21	N	C
CLARKSBURG	N8FMD	146.085	146.685	☆	
CLARKSBURG	KE8MR	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27	N	L
DUNBAR	K8VKI	147.72	147.12	☆	
ELK GARDEN	N8FMD	146.145	146.745	☆	
FAIRMONT	W8SP	146.30	146.90	N	NB
FLAT TOP/WINTERP	N8BZS	146.025	146.625	☆	
FRANKLIN	W3RUA	147.945	147.345	☆	
GASSAWAY	WB8MZI	146.01	146.61	N	
GRAFTON	WD8LNB	147.975	147.375	N	
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21	N	R
HUNTINGTON	W8VA	146.16	146.76	☆	A
HUNTINGTON	KA8BKX	147.90	147.30	N	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	☆	
KINGSTON/LICK KB	W8FG	144.87	145.47	☆	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	☆	L
LEON	WB8NMT	147.78	147.18	N	
LIBERTY	K8SLI	144.81	145.41	N	
LOGAN/BLAIR MT	NU8K	144.63	145.23	N	
LOGAN/WARD RK MT	KJ8E	146.37	146.97	N	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	☆	
MORGANTOWN	K8LG	144.83	145.43	N	AL
MORGANTOWN	W8CUL	146.16	146.76	N	LPA
MT STORM	K8VNQ	147.705	147.105	N	L
MULLENS/HRNDN MT	KC8IT	147.63	147.03	☆	LARB
NEW MARTINSVILLE	WB8CSW	146.34	146.94	N	
NEW MARTINSVLLE	WB8CSW	147.54	146.94	N	NB
OAK HILL	K8CFT	146.19	146.79	☆	EA
PARKERSBURG	WA8CRW	146.37	146.97	☆	
PARSONS	K8VNQ	144.73	145.33	N	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KC8WL	146.46	147.06	☆	A
PRINCETON/PIPEST	WD8OGY	146.325	146.925	N	A
RAVENSWOOD	WD8JNU	146.07	146.67	N	
RAVENSWOOD	WD8JNU	146.10	146.70	N	R
SALT ROCK	WD8MCR	144.51	145.11	N	

Misuse of the National 911 Emergency Numbers Noted

— by Gene Giesler, W4TYU
SERA Tn. Director, Member ARRL VRAC

We are hearing about it on the TV, newspapers are picking up on the story -- thee is an alarming trend nationally of persons abusing the Police-Fire-Emergency "911" phone systems.

Police and emergency departments say they are getting calls for everything ranging from improper medication doses to toothaches. Actually the "911" emergency number's used in many places are for **life threatening** emergencies only.

There is also much confusion when correct information is not passed on to the agencies.

Being a member of the VRAC board, I received a communique from a law enforcement officer pointing out possible misuse of the "911" emergency systems through Amateur Radio operators who do not understand the setup of this system.

Sometimes when a "911" number covers several agencies, such as police, fire, ambulance, and may stretch from city into county(s), confusion may result as to who to send where unless the operator placing the call is totally aware of procedures. Sometimes, the officer said, it is best to call the agency needed with their "direct" telephone number.

Recommended Procedure

(1) Do not use your call sign. "I am calling from my car" is all that is needed.

(2) Since Amateur autopatch is a simplex system keep the transmissions short to give the dispatcher a chance to respond or ask for information.

(3) When the dispatcher requests additional information, be ready to give it. Give your home or work phone number if asked for a phone number. The dispatcher could care less about your call sign.

(4) Dial direct, if possible. If a direct call is not possible, be concise and specific about the service needed. "I am reporting a fire in the xxxxxxxxxxx community" or "I am reporting an accident with injury on I-75 at mile marker 135." If possible, determine the number of injuries. Note: for accidents always call the police or highway patrol. Tell them if there are injuries, but **never** tell them to send ambulances -- if you report injuries, they will take the responsibility of sending an ambulance. You don't want to take that responsibility.

(5) Call the proper authority. Call ahead to report a hit and run or drunk driver.

(6) Stay on the scene until help arrives. A second call may be necessary or more information may be required. Please don't ask me to report an accident that happened a few miles back when you don't even know your location or the type assistance needed.

Correct use of the "911" emergency systems can and does save lives and property. Know **when** to use it and **when** not to.

Regional Antique Wireless Assn. To Meet in Winston-Salem

A regional meeting of the Antique Wireless Association (AWA) will be held at the Regency Motel on Cherry Street in Winston-Salem, N.C. on April 14-15.

The meeting will commence with registration on Friday morning, the 14th. In the afternoon, a Quarter Century Wireless Association (QCWA) get-together will be run by Val Vallentine, K4JO and Chuck Brydges, W4WXZ.

Howie Rice, K4NH, will be the main Saturday night banquet (buffet) speaker. He will talk about his exploits as a Navy Chief Radio operator on submarines at the start of World War II.

A hospitality room is planned both Friday and Saturday nights. Saturday morning starts the flea market, much of it taking place in the parking lot.

Dr. Marshall Helms, retired physics professor of East Carolina, will give a talk on "Building your own" radios in the early twenties. Lou Moreau (ex YL editor of QST) will talk on and demonstrate telegraph equipment.

Bill Grenfell, W4GF, will demonstrate a rotary gap spark transmitter.

There will be a panel of experts of fielding questions regarding repair, restoration, etc. of antique radio sets.

Ladies activities for the weekend include, a trip to Historic Bethabara, a luncheon and a trip to one of the area shopping malls.

Additional information may be obtained by writing: Lew W. Elias, W4DBT, 3919 Poindexter Drive, Winston-Salem, N.C. 27106.

MORE WEST VIRGINIA REPEATERS

SCOTT DEPOT/COAL	K8SLI	147.87	147.27	N	A
SHERRARD	KD8GL	146.115	146.715	☆	EAL
SPENCER	N8APG	147.705	147.105	N	P
SPRUCE KNOB	N8HON	147.885	147.285	☆	L
ST ALBANS	WB8GDY	146.40	147.00	☆	
ST ALBANS	KA8SVR	147.75	147.15	N	
ST ALBANS	K8WMX	147.975	147.375	☆	R
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERSVILLE	K8VKB	146.34	146.94	☆	
TERRA ALTA	KD8ZR	147.60	147.00	☆	PA
UNION	WA8LLM	147.99	147.39	☆	
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	PAL
WHEELING	WB8JGY	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	KE8FR	144.73	145.33	☆	A

6 METERS

BOLT/BOLT MT	N8DKL	52.05	53.05	☆	
DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB

220 MHZ

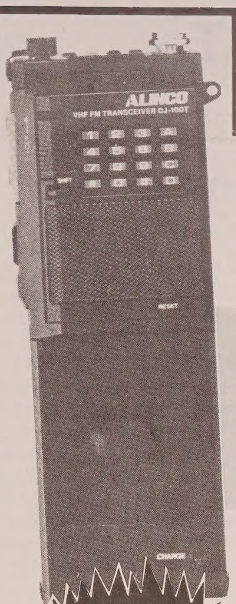
FLT TP/WNTRPLACE	N8BZS	222.46	224.06	☆	
GRAFTON	WD8LNB	222.88	224.48	N	L
KINGSTON/LICK KB	W8FG	223.14	224.74	☆	
WILLIAMSON	KA8YYW	222.54	224.14	☆	

440 MHZ

BUCKHANNON	N8FHE	448.10	443.10	☆	L
GRAFTON	WD8LNB	447.20	442.20	N	
JANE LEW	N8FMD	449.875	444.875	☆	
KINSTON/LICK KB	N8FRV	449.80	444.80	☆	
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	N	PAL
MOUNDSVILLE	KY8O	439.25	421.25	N	V
MULLENS/HRNDN MT	KC8IT	449.00	444.00	☆	RBL
S. CHARLESTON	WB8CQV	449.95	444.95	N	
WHEELING	KR8O	449.975	444.975	N	

PACKET

HUNTINGTON	KA8EUU-1		145.01	N	K
LOGAN/BLAIR MT	WB8FQJ-1		145.01	N	K
MORGANTOWN	N8BHI-1		145.01	N	K
ST ALBANS	K8SLI-1		145.01	N	
TERRA ALTA	KD8ZR-1		145.01	☆	K
WILLIAMSON	KA8YYW-1		145.01	☆	K



ALINCO ELECTRONICS

A NEW Generation of Alinco Handhelds!

DJ-100T
For 2-Meters

Introducing The DJ-100T 2 Meter Hand Held Transceiver

- **Tiny** = 1-3/16" D x 2-3/8" W x 6-5/8" H
- **Tough** = 6.5 Watts (With Optional EBP-8NAZ Nicd Battery Pack)
- **Terrific** = Features and Benefits

- LCD with Switchable Backlighting
- 10 Memories
- BNC Antenna Connection
- 16 Button DTMF Pad
- Easily Accessible Dip Switches For Encoding Sub Audible Tones
- Battery Save Draws 15ma For Extended Battery Life
- .16uv Sensitivity
- 144.00 MHz to 147.995 MHz
- CAP and MARS Modifiable
- Standard Battery, EBP-9NAZ Has DC/DC Converter Built In
- Stores Standard Repeater Offsets In Memory
- Full Range of Accessories
- 220 MHz and 440 MHz To Follow Shortly

If you are looking for the "New" generation handheld that everyone is building today – look no further. The Alinco DJ-100T has MORE power, more Battery, less price, Battery Save, Direct DC operation, stores offsets and all the other features no one of the "Big Three" has in their one unit. The DJ-100T from Williams Grab yours today! You'll be glad you did -- we Guarantee it! Coming soon from Williams and Alinco in the new DJ series, handhelds for 220 mhz, 440 mhz, and "dual band" 2-M & 440.

Williams Price
$249
List $299

You Cannot Do Better With Alinco & Williams!

We pay UPS Shipping, N.C. Res. Add 5% Sales Tax. NO CREDIT CARDS. Add $2.50 for phone CODs. Quantities at this price are limited. Call Now!!!

ALINCO
ALINCO ELECTRONICS

Tiny, Tough, & Terrific

- **Tiny** = shown - with optional 160mAH battery
- **Tough** = 4+ watts output on high power - with standard 450mAH battery
- **Terrific** = One memory - settings on front panel

Williams Special
$195.00

ALX-2T HANDHELD
For 2-Meters

VHF FM TRANSCEIVER
ALX-2T
ALINCO
MEMORY CH.

The ALX-2T is far superior in Features, Power & Battery of ANY other Thumbwheel handheld on the market. If you want a tiny, powerful 2-channel synthesized handheld, the ALX-2T is for you.

- Unit scans between thumbwheel frequency and memory
- CTCSS Board Standard
- 12 button DTMF pad standard
- **Battery save circuit draws 8mA for extended battery life**
- .16uV sensitivity
- LED lights thumbwheel
- 140.18 to 149.995 mHz
- Easy operation
- 2-year factory warranty

Accessories available

WILLIAMS RADIO SALES

600 LAKEDALE ROAD, DEPT. R
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For Orders ONLY - Call Toll Free
1-800-523-0347
NC Call (919) 993-5881
NOON to 10:00 PM EST

RICHMOND FROSTFEST

Winter Amateur Radio and Computer Show

SUNDAY, JANUARY 15, 1989

Virginia State Fairgrounds, Laburnum Avenue, Richmond, Virginia

Hours: 8:30 A.M.-3:30 P.M.

Presented By The Richmond Amateur Telecommunications Society

GENERAL ADMISSION TICKETS: $4.00 IN ADVANCE, $5.00 AT THE DOOR

GENERAL TABLE SPACES (8' Table included): $8.00

COMMERCIAL SPACES (8' Table): $15.00 First Space, $10.00 Each Additional

---

GENERAL INFORMATION

* 60,000 sq. ft. building with electrical outlets available. Well lighted and heated. Limited Drive-in for unloading and loading. Entire show inside - no outside facilities available.

* Deadline for all reserved spaces and advance ticket sales is December 31, 1988. No space reservations or advance tickets after that date. Any unsold spaces will be available on the day of the show. All monies for advance tickets and reserved spaces must be received no later than January 4, 1989.

* Advance ticket, hourly, and major door prizes. Advance ticket drawing at 3 PM. Major prizes drawn at 3:30 PM.

* Building available for set-up from 2:00 P.M. until 10:00 P.M. on Saturday the 14th. Will re-open at 6:00 A.M. Sunday for set-up. Armed security at all times.

* RV Overnight parking available for a fee. Electrical hook-ups included, but no sewer hook-ups are available.

* Talk-in provided Sunday morning on the 146.88 and 145.43 repeaters.

* ARRL/VEC Exams conducted at 10 AM on Saturday, January 14, at J. Sargeant Reynolds Community College. **NO WALK-INS OR PHONE RESERVATIONS.** For more details, contact Ron Bolton, WU4G, at (804)798-5191.

Need more info? Call Mark Huff at (804)747-0227 evenings 7-10 PM.

REGISTRATION FORM

NAME ______________________ TELEPHONE __________

BUSINESS NAME/CALL SIGN ______________________

ADDRESS ______________ CITY __________ STATE ____ ZIP ______

_____ ADVANCE TICKETS @ $4.00 EACH .... $_________

_____ GENERAL TABLES (8') @ $8.00 EACH.......... $_________
(Non-Commercial Exhibitors must purchase a General Admission Ticket)

_____ COMMERCIAL (WALL) TABLE SPACES (8') @ $15.00 FIRST TABLE,
$10.00 EACH ADDITIONAL TABLE .... $_________

ENCLOSE SELF-ADDRESSED STAMPED ENVELOPE FOR TICKETS AND REGISTRATION RETURN TOTAL: $_________

MAIL THIS FORM, WITH YOUR CHECK AND S.A.S.E., TO:
RICHMOND FROSTFEST, 5005 MEREDITH WOODS ROAD, GLEN ALLEN, VA 23060

CUT-OFF FOR ADVANCE TICKETS AND RESERVATIONS IS DECEMBER 31, 1988

Open Letter To ARRL!

Comment

Continued from Page 1

MACC.) After numerous phone calls and letters, both MACC and SERA were told that this is the way it is going to be.

Our suggestion of **not** publishing the names of **any** coordinator in the book and providing a statement suggesting prospective repeater owners might contact their **local** coordinating council for coordination was totally ignored.

Basically, SERA has not been involved in any coordinator recognition conflicts, and was told by headquarters to back off-this doesn't involve you in the first place. "What are you crying about."

So -- the 1988 Repeater Directory was published as ARRL said they were going to do it.

MACC and SERA had told the league that we could not take part in a publication provided by an organization that did not recognize us for what we were, and not take into consideration the years we had cooperated and provided them with the most accurate up-to-date repeater lists they had ever had in history.

We both threatened copyrighting our list. ARRL HQ said "go ahead. . . so we did!

At Dayton, SERA Treasurer, Ray Adams, N4BAQ, with the full backing of the SERA board, and every SERA officer that responded, stood alone on the podium and astonished the Repeater Coordinators forum by announcing that SERA had copyrighted its repeater lists. Several other coordination councils had planned similar stances, but **only** SERA did it, in public, before the nation. THe rest had their own reasons for backing out at the last minute, we do not know why -- pressure, or just hesitancy at standing up to the League in public or whatever.

From what we hear, this has been a most unpopular stance to the League in some time, according to several League Officials. Several national news bulletins took swipes at SERA for their action. It has been a most popular position taken among many coordinators, and many repeater owners and users, especially in SERAs area. Adams has received spontaneous ovations at two other state coordination meetings, and positive approval of SERA for taking the stance. At the August SERA Board meeting, the entire presence voiced their total approval of the action.

In July, the famous "minute 61" was hammered out and approved by the League Board. It was a resolution, which according to the league, would return the due respect to those coordination councils to their areas. After the resolution, each State was listed, and the appropriate coordination council was named as being recognized by the Amateur polulation as being the official Coordinator for that area.

Only **two** small areas were omitted in "minute 61". A portion of California in 220 Mhz. coordination, where the old established 220 SMA was challenged by the 220 FCC, and the Kansas City area, where MACC was being challenged by a group called **MOKAN** claimed coordination rights.

The SERA Full Board Will Discuss This Situation at their January Meeting.

Aside from these two areas, "minute 61" seemed to absove the ARRL from some of the "damage" done with the Repeater Directory, although the 220 SMA has passed a resolution condemning the ARRL for not recognition the organization which has been known and worked with the League for so many years. MACC also filed objections to the lack of total recognition of their areas, including the Kansas City area.

Just when MACC and SERA were feeling better toward what the League was doing with us coordinators, the October QST dropped another "bomb". The new "amended" minute 61 DID NOT include either Kansas or Missouri States.

What happened MACC asked? Headquarters won't say, according to MACC.

So, Here's Where We Stand

SERA board members have had several conversations with League officials over the past weeks. The League officials think SERA and MACC are wrong. SERA and MACC think the League is continuing their "steamrolling" over coordinators, to protect their rears. We feel that as long as we are not in conflict with any area in coordination, the League is our "friend" and recognizes us. If any of us are challenged by **anyone** for coordination rights anywhere, the League will forget us like they have in Kansas and Missouri for MACC, and the 220 SMA in California.

What About Repeater Lists

SERA feels an obligation to see that our area's repeaters area accurately portrayed in **any** publication, and have worked to that end for many years. The League has received thousands of "free" hours work from Coordination councils such as SERA and MACC to publish a National Directory, which last year sold over 65,000 copies at $4.00 each. We are told by a league official that they **did not** make any money on this project. Perhaps they need a new printer. It is inconceivable that a project that large and that successful, full of paid advertising and conceived by professionals didn't make any money. The cost certainly wasn't overwhelming in collecting the data, especially in comparison to years past when the League had to rely on the little white cards sent in from repeater owners.

Will SERA release it's copyrighted lists to ARRL for the 1989 Repeater Directory? We don't know at this moment. We can say that if the League continues its policy of ignoring the people who have worked with them for years, the chances are pretty slim we will. We may feel obligated to get listings accurate, but this obligation diminishes pretty fast when we are being whittled down by the very people we are trying to work with.

The ARRL has got to realize that Coordination Councils are quickly getting together, cooperating with each other. MACC and SERA are corresponding weekly, others will join in this endeavor. We **all** feel the same way.

What About the National Data Base

A groundswell is rising against the ARRL proposed National Data Base among the coordinating community. Events of the past year are convincing SERA and many other Coordinating councils, that a National Data Base, available to any "coordinator" which contains information not generally meant for public inspection would not be in the best interest. What would Oregon or Utah need with a North Carolina or Tennessee data base?

On the other hand, T-MARC or Alabama or Florida might need certain segments of the SERA data base. They already have what they have asked for, and can get whatever they need for SERA. They don't need a national

Continued on Page 45

WCARS Examination

TENNESSEE

Blount County, Maryville

Second Monday of each even month. 7:00 P.M. at St. Andrews Church Hall - Maryville. Walkins normally accepted. Contact: Carrol Peabody, W4PC (615) 982-5839.

Cleveland

Quarterly Exams at STAR Club Building. Walkins normally accepted. Contact: Russell E. Lawson, WB4LCB, (615) 476-8476.

Knoxville

Third Saturday of each month normally. Pellissippi State Tech. Room B-129. Also several early year hamfests at Morrison, Sevierville, Oak Ridge and Knoxville. Pre-registration required. Contact: Ray Adams, N4BAQ (615) 688-7771.

Loudon County, Loudon

Fourth Saturday of each even month, at Loudon County Justice Center, Sugar Limb Road. Walkins normally accepted. Contact: Bob Gray, KE4SK (615) 458-6115.

Morgan County

Second Saturday of each odd month at Joyner School, Coalfield. Walkins normally accepted. Contact: Paul Seavers, AA4UP (615) 6052.

Roan County

Second Saturday of Even Months at Pond Grove School, Rockwood. Walkins normally accepted. Contact: Richard Spillee, AA4KS, (615) 354-4281.

Other WCARS Examiners

DALTON, GA - Contact: Bert L. Coker, N4BZJ, (404) 673-2214. FENTRESS CITY, TN - Contact: Mike Ledbetter, AB4BX, (615) 879-8626. HENRY CITY, TN - Contact: Mackie Gallimore, AA4YF, (901) 247-5489. JASPER, TN - Contact: Charles Wooten, KD4XX, (615) 942-5116. HAZARD, KY - Contact: John Farler, K4AVX, (606) 436-5354. MIDDLEBORO, KY - Contact: Wade Bevins, WX4OBL, (615) 337-8165. COLUMBIA, SC - Contact: Ray Rogers, N4WR, (803) 345-3373.

W5YI Examinations

Bluefield Virginia VE Team

Exams (Novice thru Extra) every second Saturday each Quarter, Feb., May, Aug., and Nov. 9:00 A.M. Bluefield State College. Walkins are preferred. Contact: Don Williams, WA4K, (703) 326-2411 or (703) 326-3338.

Charleston, W.Va.

The Kanawha Valley group gives Novice thru Extra class exams at 9:00 a.m., 2nd Saturday of each month, at Holy Trinity Catholic Church in Nitro. Walkins are accepted. Talkin on teh 40-00 St. Albans repeater.

WAVE Examinations - Raleigh, NC

Wake Amateur VEs conduct examinations at St. Augustine's College. Pre-registration generally requested, but walkins are accepted up until 30 minutes prior to exam time. Contact: J.M. Johnson, WM4P, 2118 Lyndhurst Dr., Raleigh, N.C. 27610, for further information and schedules.

VE EXAMINATIONS

— Compiled via VEC Announcements

The Repeater Journal will publish authorized VE examination schedules quarterly in each issue. VECs and VEs are encouraged to use this vehicle to publicize their examination schedules FREE of charge. Send schedules to the Repeater Journal editor. Deadlines are 1st of Month prior to month of publication.

TEARC Examinations

NORTH CAROLINA

Kernersville

First Saturday of each month. 9:00 a.m. at Kernersville Public Library. Fee $4.50. Walk-ins allowed. Contact Bob Gates, KJ4IC (919) 996-5196.

High Point

Third Saturday of each month. 9:30 a.m. at Masonic Temple on Main Street. Fee $4.50. Walk-ins allowed. Contact Ray Anderson, AA4LT, (919) 882-3869.

Greensboro Hamfest

Nov. 26 & 27 at Hamfest. Pre-registration is a must. Cutoff date is Nov. 20. Send completed 610, $4.50 to TEARC/VEC, 3504 Stonehurst Pl., High Point, N.C. 27260. Info: (919) 841-7576.

Other TEARC Examiners

LEXINGTON, NC - Contact: Rae Everhart, K4SWN, (704) 249-8734. WILMINGTON, NC - Contact: Don Conaway, AF4J, (919) 791-9460. PEACHTREE CITY, GA - Contact: Veronica Hicks, N4ODI, (404) 927-6296. MORE TEARC EXAMS - Contact: Jim Williamson, NQ4T, (919) 869-6637.

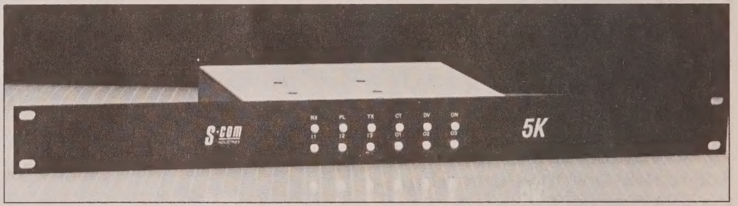
TEARC/VEC NOTE!

Our phone number has changed to (919) 841-7576. We are now accredited for the **fifth Call area.** We are looking for Volunteer Examiners. If interested in becoming an Accredited VE, write or call us. TEARC/VEC, 3504 Stonehurst Pl., High Point, N.C. 27260.

Repeater Growth Coming Next Issue

The February issue of the Repeater Journal will contain our annual census of repeaters in our seven districts. Each year in January, a count is made of every known repeater on every band and compared with years past.

Watch for this interesting statistical item -- only in the Journal!



New Products

S-COM Display Cabinet For 5K Rep. Controller

Know your repeater's status at a glance with the new Display Cabinet option announced by S-COM Industries for its popular 5K Repeater Controller.

The cabinet may be retrofitted to any 5K controller without soldering or rewiring, and offers the high quality and precise engineering users have come to expect from the company.

The Display Cabinet sports a clean, new look created by a non-chipping black anodized front panel, white graphics, and the use of hidden fasteners to eliminate unsightly screw heads and other hardware.

Large, deep red Hewlett-Packard A1GaAs LED lamps inform the viewer of important circuit status data; i.e., Receiver COR, Transmitter PTT, CTCSS Decoder, Control Receiver COR, DTMF Data Valid, Power On, Logic Inputs 1, 2, and 3, and Logic Outputs 1, 2, and 3.

In addition, these new LEDs feature high light output while consuming ONLY 1 milliampere each, making this a practical display even for 5Ks at battery operated repeater sites.

A conductive iridite-plated chassis box reduces RFI and houses the 5K board, Display Board, and an optional Audio Delay Module.

The cabinet provides cutouts for the 5K's power and input/output connectors, and uses PEM fasteners to eliminate troublesome nuts and standoffs. A ribbon cable assembly attaches to connectors located on the 5K and Display boards, making installation a snap.

The assembled and tested Display Cabinet is priced at $69 plus $5 S & H. A similar cabinet is available without the display feature. Contact S-COM Industries, PO Box 8921, Fort Collins, CO 80524. Telephone (303) 493-8316.

MIRAGE/KLM BEAMS AND ANTENNAS

6M thru 450 Mhz. Antennas IN STOCK!
HF BEAMS - DROP SHIPPED FROM KLM

Call WILLIAMS RADIO for Assistance in Tailoring a KLM system to your Station requirements. Whether you are looking for a single vertical for HF, a single beam for 2-Meters, or you want a complete Monobeam array for HF bands, or a stacked array for UHF/VHF DXing, WILLIAMS can take care of your needs with the antennas that WORK! KLM!

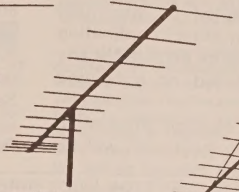
New LOWER Prices!

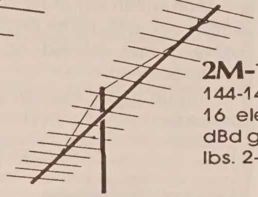
6-Meter Beams- Call!

ANTENNAS FOR 2-Meters

2M-13LBA
144-148 Mhz., 13 elements with 13.3 dBd gain. Boom Length is 21.5 feet. 9 lbs., 2-in mast.

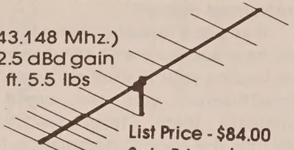
List Price - $95.00
Sale Price - $79.00





Use Horizontal or Vertical

2M-11X
144-146 (usable 143.148 Mhz.)
11 elements with 12.5 dBd gain
Boom Length 15.4 ft. 5.5 lbs



List Price - $84.00
Sale Price - $69.00

2M-16LBX
144-146 (usable 143-148 Mhz.) 16 elements with 13.2 to 14.5 dBd gain. Boom Length 28 ft. 10 lbs. 2-1/8 mast.

List Price - $195.00
Sale Price - $159.00

Write for a free catalog!

OTHER 2-METER BEAMS

2M-8 - 8 elements, 10.3 dBd gain (List $98)	$83.00
2M-4X - 4 elements (end mt.) 8.5 dBd (List $62)	$55.00

2-METER CIRCULAR POLARIZATION

2M-22C - 22 elements, 13 dBdc (List $213)	$169.00
2M-14C - 14 elements, 11 dBdc (List $164)	$139.00

2-METER VERTICALS

JV-2 60-in., 144-148 Mh. 5 db/gr pl, (List $112)	$89.00
JV2X 11-ft., 144-148 Mh. 7 db/gr pl, (List $153)	$125.00

220 Mhz. BEAMS

220-7 - 7 elements, 8.8 dBd, (List $76)	$62.00
220-14X - 14 elements, 13.5 dBd, (List $109)	$89.00
220-22LBX - 22 elements, 15.6 dBd, (List $137)	$109.00
JV-220X - 88-in VERTICAL 7 dB/gr pl, (List $141)	$115.00

432 BEAMS

432-20 LBX - 20 elements, 15.3 dBd, (List $146)	$119.00
432-30 LBX - 32 elements, 17.3 dBd, (List $169)	$135.00

435 CIRCULAR POLARIZATION BEAMS

435-18C - 18 ele. 12 dBdc, w/CS-2 sw (List $214)	$175.00
435-40CX - 40 ele. 15.2 dBdc, (List $251)	$205.00

440-450 FM BEAMS

440-6X - 6 elements, 8.9 dBd, (List $55)	$48.00
440-10X - 10 elements, 10.2 dBd, (List $65)	$58.00
440-27 - 27 elements, 13.5 dBd, (List $120)	$99.00
JV-440X - 420-470 VERT., 7 db/gr pl. (List $122)	$99.00

OTHER VERTICALS

JV-6 - 6-Meters, 50-54 Mhz. 5 db/gr pl. (List $109)	$89.00
JV-10 - 10M, 27-30 Mhz. 3 dB/gr pl. (List $102)	$85.00

CJ SERIES 1.8 dBd, CLOSED LOOPS

CJ2M	$33.00
CJ220M	$32.00
CJ440	$29.00

HF TRI-BAND BEAMS 10-15-20M (Drop-Shipped from KLM)

KT-34A TRI-BAND 7 dBd, 4 el-16 ft boom (List $484)	$379
KT-34XA TRI-BAND 8.5-11.3 dBd, 6 el, (List $697)	$549

HF MONOBEAMS (Drop-Shipped From KLM)

10M-6 - 11 dBd, 27.5 ft boom, 6-el., (List $321)	$255
10M-4 - 7.7 dBd, 10 ft boom, 4 el., (List $203)	$159
15M-6 - 11 dBd, 36 ft boom, 6 el., (List $524)	$415
15M-6LD-10.5 dBd, 36 ft boom, 6 el., (List $393)	$309
15M-4 - 7.7 dBd, 14 ft boom, 4 el., (List $221)	$179
20M-6 - 11 dBd, 57 ft boom, 6 el., (List $931)	$729
20M-5 - 9.7 dBd, 42 ft boom, 5 el., (List $647)	$508
20M-4 - 7.7 dBd, 21 ft boom, 4 el., (List $417)	$329
40M-4 - 7.2 dBd, 42 ft boom, 4 el., (List $935)	$735
40M-3A - 6.5 dBd, 32 ft boom, 3 el., (List $703)	$559
40M-2A - 4.9 dBd, 16 ft boom, 2 el., (List $493)	$389
40M-1 Dipole., 23 ft boom, 1 el., (List $202)	$159
80M-3 - 7.0 dBd, 60 ft boom, 3 el., (List $3731)	$2999
80M-2 - 4.0 dBd, 36 ft boom, 2 el., (List $2513)	$1999
80M-1 Dipole, 90 ft element, 1 el., (List $763)	$610

HF VERTICALS

160V - VERTICAL 24 ft ht 1.8-2.0 Mhz. (List $232)	$185
40-10V - 26.5 ft ht, 7, 14, 21, 28 Mhz. (List $287)	$229

NOTE; Prices for UHF/VHF (In Stock) antennas plus UPS shipping or freight. (Approximately $5.00). All HF beams will be drop-shipped from the factory, by truck and freight will be billed C.O.D. Delivery within 10 days to 2 weeks. Prices subject to change without notice. N.C. residents add 5% Sales Tax. NO CREDIT CARDS. For Phone CODs add $2.50.

WILLIAMS RADIO SALES

600 LAKEDALE ROAD, DEPT. R
COLFAX, N.C. 27235

For Orders ONLY - Call Toll Free
1-800-523-0347
NC Call (919) 993-5881
NOON to 10:00 PM EST

Director/Vice Director "Floor Nominations"

Elsewhere in this issue of the Journal, you will find the results of nominations for Directors and Vice Director of each of SERAs 7 Districts.

If none of these nominations are opposed, they will automatically be elected for their various offices. (If for any reason, no nominations are made for any District, by the nominating committee, nominations "from the floor" for that District, Director or Vice Director, if only one of each, will be proclaimed elected.)

If you as a repeater owner feel that you have someone who can do a better job leading your District as Director or Vice-Director, you are urged to nominate them "from the floor" utilizing the special nomination form published in this issue of the Journal. Be advised that your nomination, correctly filled out with accompanying documentation must be postmarked to the Secretary of SERA no later than November 30th.

Director, Vice-Director Requirements

The SERA Bylaws state:

(1) No full member may be eligible to cast more than one vote in any election.

(2) No full member may be permitted to participate in the election in any manner, including but not limited to nominating a candidate or casting a ballot if the full member operates an uncoordinated or a decoordinated repeater as defined in our coordination policies and guidelines, nor shall he be eligible for any office whether elected or appointed within SERA.

(3) No full member may be permitted to participate in the election process in any manner including but not limited to nominating a candidate or casting a ballot if the full member serves in an elected or appointed position within any other coordinating entity, nor shall he be eligible for any office, either elected or appointed within SERA.

(4) (a) In the election process, no nomination "from the floor" will be considered valid unless it is accompanied by a written statement from the candidate so nominated accepting the nomination.

(5) No full member shall be eligible to vote unless he was a member in good standing on or before July 1 preceeding the election.

In addition, eligible full members who plan to submit a "nomination from the floor" by filling out the blank from the Journal, must get the signatures of three other full members.

Please see that your form is accurately filled out and appropriate documentation is included. Be sure the form is mailed to the SERA Secretary no later than November 30th.

In the event of an election for any District, ballots will be mailed to full members of that District no later than December 4. Returned, marked ballots must be postmarked back to the Secretary no later than December 13.

Ballots will be counted between December 20 and December 22.

SERA DIRECTOR / VICE-DIRECTOR NOMINATION FORM

To SERA Secretary:

The below named person(s) are nominated to office(s) listed below. The persons nominated have been contacted and through their acceptance letter (enclosed) will serve if elected. The nominee is a FULL MEMBER, qualifying under the bylaws of SERA to hold office. It is understood that this nomination from the floor, signed by myself and three other eligible full members will be added to the nominating committee's list of nominees. If this "from the floor" nomination is the only one submitted for this office, that person shall be elected to the office. If this "from the floor" nomination is in addition to person(s) for the same office nominated by the nominating committee, an election will be held by written ballots mailed to every full member of appropriate SERA District(s).

Office person is nominated for ______________________________
(Director or Vice-Director)

If more than one nominee, use xeroxed copy or simular sheet of paper.

Name of nominee ______________________ **Call** ______________

Address ______________________________ **Phone** __________

Is A representative of ______________________ **repeater (a full member)**
(Call-City-Freq)

Person has been contacted and has agreed to serve to best of his ability if elected to the office nominated ( ) Yes

Include brief Biographical sketch of nominee and his achievements in Amateur Radio and /or CVRA-SERA. (Use separate sheet of paper)

This nomination certified by me ______________________ **Call** ________

member of repeater ________________, **a full member of CVRA-SERA.**

Three other full members:

______________________ **call** ____________ **repeater** ____________

______________________ **call** ____________ **repeater** ____________

______________________ **call** ____________ **repeater** ____________

Other full members must sign their signature personally.

Mail this form with attached required documentation to:
BARBARRA GREGORY, SERA Secretary, 8619 Smokerise Lane, Chattanooga, Tn. 37421.
(This mailing must be Postmarked no later than November 30.)

New Florida Map Of Repeaters Out

(Florida Skip) -- The 6th edition of the Florida Skip 2-Meter map is off the press. Editor Bill Tucker, W4FXE indicates the new map is 100% updated. It is printed on 11 x 17 light yellow paper with black ink. Each city has its own box containing repeater frequencies.

Another list on the side makes it easy to see which city has what frequency.

To obtain the new Florida repeater map, send 25 cents with business sized SASE to: MAP, Box 501, Miami Springs, Fl. 33266.

The new Forida 440 Mhz repeater map is also available, with editor Harlin Cohn, W4UIM saying it is much like the 2-meter map, but printed on light green paper.

An extra 25-cents for the 440 repeater map can be mailed with the 2-meter map for 25 cents postage on your SASE.

(Editor's Note) If you are a former Floridian and want to keep up with what's going on in your old home state, we highly recommend "Florida Skip" Magazine, published monthly. Subscription rate is $8.00 per year. Send name, call, address to FLORIDA SKIP and the same address as above.

REPEATER JOURNAL ADVERTISING RATES

Effective 1 January 1987

The Repeater Journal is a 3 column magazine with overall page dimension of 8½ x 11 inches. Our page size enables a wide variety of ad sizes from full page down to one column inch size.

Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

ADVERTISING DEADLINES

FEB. Issue–Dec. 20	MAY Issue–Mar. 20
AUG. Issue–June 20	NOV Issue–Sep. 20

Advertising copy MUST be mailed to:
REPEATER JOURNAL ADV. MANAGER,
SHARON WARD, 5573 Vienna-Dozier Rd.,
Pfafftown, N.C. 27040.

The CVRA REPEATER JOURNAL cannot be responsible for errors in advertising, or held accountable for equipment or accessories that do not live up to the advertised claim. We are not responsible and cannot guarantee insertion of advertising received after deadline.

CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: One additional spot color, on available color pages is available for an additional $25.00 charge per ad. FULL COLOR: Is available on the Inside Front and Inside Back covers. 100-130 Line separation negatives, right reading, emulsion down are required. No extra charge for full bleed. Due to Journal width being 1/4-in wider than national magazines, the color will bleed to outer edge, with a color stripe on inner edge of page, if separations do not fill width.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

BUSINESS CARDS, CLASSIFIED ADS AND HAMFEST advertising must be sent accompanied by full payment for insertion. Advertisers who have not paid for previously published advertising before upcoming issue deadline, cannot have any advertising inserted until account is paid in full.

REPEATER JOURNAL ADVERTISING SIZES AND RATES

Ins. Frt. or Ins. Bk. Cover (Full Color)	8-1/2″x11″	$300.00
Full Page	7-1/8″ x 9-7/8″	85.00
Full Page Bleed (any sides)	8-1/2″ x 11″	100.00
2/3 Page (Vertical)	4-5/8″ x 9-7/8″	65.00
1/2 Page (Horizontal)	7-1/8″ x 4-3/4″	48.00
1/2 Page (Vertical)	3-1/2″ x 9-7/8″	48.00
1/2 Page (Vertical 2-col)	4-5/8″ x 7-1/8″	48.00
1/3 Page (Vertical Only)	2-1/4″ x 9-7/8″	35.00
1/4 Page (Vertical Only)	3-1/2″ x 4-3/4″	28.00
1/6 Page (Vertical)	2-1/4″ x 4-3/4″	18.00
1/6 Page (Horizontal)	4-3/4″ x 2-1/4″	18.00
1/12 Page (Vertical Only)	2-1/4″ x 2-1/4″	10.00
Business Cards - Standard Size	(4 Issue Contract Only)	16.00 In Advance

Classified Ads (30 Words Maximum per ad) In Advance 3.00
Color (1 additional color plus black) An Size Ad 25.00

Sizes listed above are width by length in that order. Ads which run lengths between sizes listed above will be billed according to column inch rate at midpoint. Prices above are for exact size, camera ready positive photoprint, or pasteup. Camera work, typesetting additional. No charge for layout.

Not $300 a page, Not even $200 a page. The Repeater Journal advertising rates and circulation provide you the best dollar value of any Amateur advertising medium in the Southeast. Repeater Journal Advertising PAYS FOR ITSELF! Big circulation National Magazines are Great for results, but do the results pay for the high cost of advertising. Concentrated circulation, low rates, all give the Repeater Journal advertiser the most for his dollar. Call or Write our Advertising Manager today!

Yes! I Want to Support SERA - Sign Me UP for the Journal!

SERA ASSOCIATE MEMBERSHIP APPLICATION

Name ______________ Call ______________

Address ______________ Date ______________

City ______________ Zip ______________

Phone (___) ______________ Member ARRL ( ) Yes ( ) No

Enclosed is $ ______ for ______ Year(s) Mail Application & Fee To:

NEW ______ **RENEW** ______ **HOT-P** ______
$6.00 Year (Maximum 2-Years) $10.50-Max. 1 Year

SERA Associate Membership
Post Office Box 24292
Winston-Salem, N.C. 27114-4292

You Will Receive the Next Journal

RJ 11-88

Support Your Official COORDINATOR! Join SERA Today!

Make a copy of this application and pass it to a friend. Encourage him to help support the coordination council that for 17 years has worked to keep your repeater in the clear. Your membership guarantees a continuation of this work. Associate Members (repeater users) will receive the REPEATER JOURNAL quarterly. If you are a present Associate Member, you may use this application to renew, change address, or change callsign.

Deadlines for membership are the 15th of the month prior to Publication, to receive the next upcoming Journal. (Jan. 15, Apr. 15, Jul. 15 and Oct. 15). Applications received after deadline will receive the next Journal 3 months away.

The Repeater Journal Reviews. . .

— by Wayne C. Williams, K4MOB
Editor & Publisher

CQ Amateur Radio 1989 BUYER'S GUIDE

In the business world, we see "Buyer's Guides" commonplace, all the time. Recently, we experienced the ultimate -- the CQ - "Amateur Radio 1989 Buyers Guide", published by the same folks who put out CQ Magazine from Hicksville, N.Y. It was released in mid September to numerous dealers and newstands across the nation.

The new Buyer's Guide was well planned, and full of very interesting information throughout its 168 pages. The visually pleasing magazine in my opinion is a must for the new Ham who is still undecided just what facet of Amateur Radio he wants to dive into. It is must reading for the Amateur who just can't quite decide which radio is best for him. It is also must reading for the "old" hand, who thought he knew everything there was to know about Amateur Radio, buying and selling equipment. The CQ Buyer's Guide has got it all!

Lots of color, not only for the ads, but for many, many newsy pages carefully placed throughout.

It is hard to review a magazine that seeks to review everything there is about Amateur Radio, but you have probably guessed by now, I like the book, and highly recommend it for good informative reading.

Inside the Buyer's Guide

The Editors, headed by Pete O'Dell, WB2D, give us a nice insight as to what the book is all about at the beginning. Thye dealve into several areas that many of us take for granted. Such as, Credit Card buying and CODs from Amateur dealers. They describe in detail the allowances for time you need to make for shipping, waiting for checks to clear, obligations of the seller, and "How to be a good Ham Radio Buyer", respecting a dealers WATTS line, getting complete information about what you want to buy before you telephone, and unusual requests. The two pages explain the pitfalls of dealers and buyers alike who don't follow the golden rule. . . "Do unto others. . . .".

The CQ 1989 Buyer's Guide has detailed descriptions and photographs of virtually every currently marketed piece of ham gear there is, complete with features, specifications, and manufacturer's suggested retail prices. Each type of equipment is shown in its appropriate category section, alphabetized by manufacturers or importers name for easy lookup.

The Buyer's Guide also includes a section "Who's Who in Manufacturing/Importers" and a "Who's Who in Dealers." This very informative section will give you a permanent listing of all the dealers in the nation, phone numbers, when they started in business, names and callsigns of contact persons, their main lined of equipment, whether they take trades, and whether repairs can be made on premises.

1st Annual
CQ
Amateur Radio
1989 BUYER'S GUIDE
$3.95
Covers Over 600 Amateur Products!
• Features • Specifications • Photos • Prices
Who's Who in Manufacturers and Dealers!
• Telephone Numbers • Key Employee Names
• Trade-In/Service Policies • Years in Business
Experts Tell You All!
• Their Equipment Buying Tips
• New Upgrading Guidelines
• Working the Flea Markets
• Computerizing Your Shack
• How to Choose an HF Antenna
and much more!

If all this wasn't enough, there is a bunch of great articles by talented key people about various aspects of Amateur Radio.

Articles such as, "Doorway to Hamdom, New FCC Rules", "Radio Equipment Essentials", a guide to modern HF transceivers, and how to choose HF antennas.

The world of FM is included in "A guide to FM equipment selection," and "Expanding the Shack" deals with the important decision of buying a computer for the shack.

Packet is covered well in another story, and "The other side of VHF/UHF" deals with weak signal and moonbounce.

There's still more! "Accessories for a Ham Station", another well thought out story helps you make additional decisions as to what to get to compliment that HF station.

Fleamarketing, Hamfests, and contesting are also covered appropriately in the Buyer's Guide.

There are hours of good reading in this new book. It will also be a valuable addition to the hamshack library for future reference for equipment, or the phone number of that favorite dealer.

Why, they even give you: (1) Subjects covered in FCC written exams, percentage of questions from the pool for each element. (2) A complete list of all VECs in the nation (3) Call Districts and States and U.S. Possessions call prefix numbers (4) Call sign formats for various class licenses, callsigns issued as of June 1 for each license class, and more interesting tidbits of information, identified in grey screened boxes throughout the magazine.

And last but not least, the manufacturers and dealers across the nation have their "best" ads forward for this premier magazine, telling you of their latest equipment, and best prices.

If space in the Journal permitted, we could go on and on, but we've only been able to touch on the contents of this new Buyer's Guide from CQ.

The CQ 1989 Amateur Radio Buyer's Guide will be available on news stands or from your favorite dealer until the end of the year. It can also be obtained by writing directo to CQ Buyer's Guide, 76 North Broadway, Hicksville, N.Y. 11801. Enclose the cover price of $3.95, they'll pay the postage and handling. After the first of the year, the Buyer's can still be obtained directly from CQ at the above address.

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Some Thoughts About Words

— Special to the Journal
by George Hinds, N8CIX

Amateur radio conversations are like any other conversations -- at times stupidity or dullness will prevail: the "lid" on the repeater who thinks he sounds like an "old timer" because he fills the air with "QSL" and "QSY" repeatedly; the person who time and again just has to interrupt a conversation in progress "to find out how my new antenna sounds" (think about that for a while); the "droner" who drones on for what seems to be forever about mere trivia; such major tragedies as a blown fuse three months earlier (and you wish it would hurry and blow again), etc., etc.

Sometimes people need help to become conversational -- years ago it probably was easier. After all, without TV, radio, etc., practice at conversation was almost the only thing open to pass the time. Today, sitting mute before the TV for hours, its a wonder that sanity (and marriages) survive.

But: when you've just about decided to turn the rig off, along comes someone on the air who, when he or she talks, tells a story in words that are almost pictures. Suddenly, folks listening don't feel the urge to run away; they enjoy what they're hearing.

"Picture-talkers" seem to have closed their eyes for a moment before speaking. They "see" a picture of what they will talk about. Then they describe the picture in words with plenty of attention-grabbing adjectives. You and I listen with interest to such conversations - wouldn't it make ham radio infinitely more interesting if more hams spoke in "picture-talk?" It's too bad that we can't express ourselves with gestures and signs to enliven our over-the-air talk.

On the other hand. . . .

At least three topics of conversation on the air seldom, if ever, pay off in friendship for ham radio operators: **Profanity, Politics** and **Religion.** Allowing yourself to become embroiled over such highly personal and contentious subjects as politics and religion with other hams is almost a guarantee in becoming involved in arguments, followed by splintered, perhaps even broken, friendships.

The hazards of on-the-air politics and religion are obvious to thinking people; the hazards of using profanity should be.

A person constantly relying on "hell" or "damn" or worse on the air or off is demonstrating a lack of sufficient command of the English language to express themselves effectively. Profanity on the air is offensive; never mind that it may be in everyday use elsewhere, it **never** improves the image that others have of the user! Try a simple home test: turn on a tape recorder then let forth with some profanity and play it back - that should do it for you!

I'm reminded of how often we've sat around over coffee and at meetings and talked of the vast number of listeners out there in "scanner land" to Amateur radio conversations.

You never know who is listening: people who may have considerable influence over the future well-being of the Amateur Radio Service Congressman, City and State Officials, etc. The list is long - the influence unknown at the moment. If we care (and we should) that they get a good impression of the Amateur radio service and those who have been granted the privilege to use the airwaves allocated to Amateurs, then it's in our best interest to make one of our first priorities the "cleaning up of our act" by ending the use of profanity. . . .

Raleigh Club Member Survives Lightning Hit

— Ctsy. RARS Newsletter
Raleigh, N.C.

RARS member Randall Mason, N4SSN, came about as close as one would ever want to be to a lightning strike on the weekend of August 20.

A thunderstorm was rumbling through the area, and the thunder sounded distant; Randall says it was easy to rationalize that "lightning won't hit me. . ." even though he knew better than to be working near electrical equipment during a storm.

Randall was working in his shop, troubleshooting a friend's car radio amplifier. He was working on a wooden table, sitting on a metal frame chair, with his pet dog close under foot. It was hot and humid in the shop, and Randall says he was "kind of sweaty" and was wearing sneakers.

Having identified a bad diode, Randall had already un-soldered one end of the diode, and was about to touch the soldering iron to the other end of the diode when he saw a brilliant blue flash come off of the tip of the soldering iron, and felt a searing pain in his lower leg. At the same time, he recalls hearing his dog yelp in pain.

Randall said he found himself thrown across the room. He said he made his way back into the house, but had no memory of the event (nor memory of where or who he was. . .).

After a couple of hours, his memory started coming back, and he realized that he had been hit by lightning! He ventured back into the shop and found that the soldering iron tip had melted, the unit he was working on was totally destroyed (the lids were blown off of all the ICs, and the rear panel was completely blown away).

Randall had a hole burned in his leg where it was resting against the metal chair leg, and his dog had all the fur singed off at the spot where Randall had his other leg touching the dog.

Nothing else was damaged. His HT was still sitting on the table, and was working fine. No other electrical appliances in the shop were damaged. Randall says he thinks lightning hit a tree in his front yard, and it was a residual or induced voltage that somehow made its way into the soldering iron.

Randall says he's glad to be alive, and to be able to talk about the incident. And as he recently became a new father just the previous month, there are others who are mighty glad he got off with just a "warning."

There are two lessons we can all learn from Randall's experience: Firstly, and most importantly, when it's thunder storming outside, **keep clear of electrical appliances.**

Secondly, if you value your electronic gear, don't give it to Randall to fix!!!!

Your Story And Pictures Needed

The Repeater Journal is always looking for good news, human interest, feature stories about you and your fellow ham.

If you have pictures -- all the better. Send your items to the Journal Editor. Don't worry if you feel you cannot write a good story, the editor will help you. Just send along the information.

ALINCO ELECTRONICS

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VHF & UHF FM MOBILE

Williams and Alinco have the Transceivers You Want, at a better price than you would expect, and all the features you need. You don't have to pay fancy prices for a fancy name to get a radio that does the job. Alinco Transceivers are rugged, well built, and dependable.

Check these features:

- 21 Memory Channels - 2 call channels
- 25-watt & 45 Watts (2 meter models)
- 25-watts both 2-M and 440 on Dual Bander
- Dual VFOs on all models - Full LCD Readout
- Sub Audible Tone Encode & Decode-standard
- Tiny - 1-1/2 x 5-1/2 x 6-1/2 inches
- 180 Day Warranty - 2 Year Service Warranty
- 16 Position DTMF Touchtone, = Scan Microphone
- Built-in speaker, mobile bracket, power cable
- Automatic offsets or oddball offsets per channel
- Dual bander is fully duplexed (No duplexer to buy)
- All Lithium battery memory backup - standard

ALR-22T
2-Meters
25-Watts
$319
List $409

ALR-22HT
2-Meters
45-Watts
$339
List $430

ALD-24T
Dual bander
25W each
$499
List $638

FREE UPS SHIPPING. Add $2.50 for phone CODs. NO CREDIT CARDS. N.C. Residents add 5% Sales Tax.

ALR 22T (25 WATTS) 22HT (45 WATTS)

ALD-24T (25 Watts on both bands) has all the features as 22T, 22HT, 72T plus Cross Band full duplex.

FEATURES

- **Ultra-Compact**
  5-1/2" W x 1-9/16" H x 6-1/2" D, an ideal size for installation in today's compact automobiles.
- **Large LCD**
  Highly visible front Panel LCD is designed for easy viewing.
- **21 Memory Channels**
  21 fully programmable memories. All offsets, encode and decode information and "locked out" memories can be programmed.
- **High RF Output**
  Provides a powerful 25 watts (or 45 watts with ALR-22HT), RF output power with a low power setter of approximately 5 watts.
- **Dual Digital VFOs**
  Features dual digital VFOs, with front panel selection. The two VFO's tune independently.
- **Memory Scan and Programmable Band Scan**
  - SCAN Button initiates memory scan. Skips memories in which no data is stored or are locked out.
  - UP or DOWN buttons on the microphone initiates band scan in the appropriate direction. Two selectable frequencies can be stored independently for scanning limits, if so desired.
  - In both memory and band scan, scanning stops on the busy frequency and automatically resumes 2 seconds after signal ceases.
- **Priority Function**
  With priority function selected, the unit scans back to the memory channel selected to monitor activity.
- **Easily Programmable Repeater Offsets**
  +/-600KHz: (ALR-22T and ALR-22HT) + /-5MHz: (ALR-72T) or simplex are selected by the front panel offset button.
- **16-Key Autopatch Up/Down Microphone**
  Encodes 16 DTMF tones. Up/Down switches provide step frequency change or initiate band scan.
- **Standard Tone Squelch — not an add-on option as with other manufacturers.**
- **Easily programmed Non-Standard Offset Frequency.**
- **Unit can be used for CAP or MARS operation with no modifications.**

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Full Members, Repeater Owners, We Hear You!!

For years, repeater owners and trustees have complained about having to fill out the extensive Full Membership applications every year to renew their Full Membership.

Well, this year, that is all going to change. David Ward, KA4LVO and Wayne Williams, K4MOB, our two computer operators for SERA are busy at work generating a complete Data Base form/renewal blank for EVERY repeater in the SERA Southeast-over 1,150 of them.

Plans are to have them all in the mail by mid-November, or early December. Since every repeater we have on file will be getting a data base sheet, we will not publish a renewal form this issue.

The new data base sheet, will contain the name and address of the representatives on record, and all the information our computer has on that repeater. Persons who had sent in completed files over the past years, may have nothing to do, but sign the form and return it with their $15.00 renewal fee, or in the case of persons wishing not to join as full members, simply return the form.

Repeater owners are urged to read over the data carefully, each entry is clearly identified. Corrections, changes, deletions, or whatever should be made in spaces provided. If there is NO information on the data base for any repeater, it is because NONE has been provided since 1985. So the owner has a little job ahead of him.

We cannot emphasize how important it is for repeater owners to submit accurate and complete information to us. Future coordination, and many other requirements might be needed and picked up from the information provided.

So watch for your data form, fill in out and return with your dues. Deadline to be listed in February Journal is January 15, 1989.

Tennessee Minutes

— by Jean V. Giesler, W4TYU

AA4TA reports that his Clarksville 99/39 machine is running experimently with one watt out of duplexer. He hopes to have power up to ten watts by first of the year and is looking at several possible permanent homes for the antenna.

• • • •

Jack also informs me of a ten meter "training" net on 28.355 each Wednesday nite at 2130 Central time. KA4ONL is NCS and all are invited to join in.

• • • •

WB4HCK of Franklin became a "silent key" last December and his repeater has been disassembled.

• • • •

WB4GBI reports that his 145.47 machine in Knoxville has a new Super Stationmaster antenna side mounted at 100 feet.

• • • •

Tim also says that 147.075 phone patch machine has an ailing duplexer and is resting while awaiting repair.

• • • •

Heard on "low band cw" -- lots of QRM in the shack, OM-my dog is snoring under my chair.

JOIN ARRL

BENEFITS FOR YOU: QST, QSL Bureau, Awards (DXCC, WAS, etc.), Low Cost Insurance, Operating Aids, Government Liaison and more—Much more! For You!

Mail This Application To

USE THIS COUPON OR A FACSIMILE AND MAIL TODAY.

In Roanoke Division,
Gay E. Milius, Jr., W4UG
Director, Roanoke Division
1416 Rutland Drive
Virginia Beach, Va. 23454

In Delta Division,
Joel M. Harrison, Sr., WB5IGF
Director, Delta Division
Rt. 1, Box 219B
Judsonia, Ar. 72081

Ctsy. SERA Repeater Journal

MEMBERSHIP APPLICATION

Name ______________________ Call ________
Street ______________________
City __________ Prov./State __________ PC/Zip ________

$25 in U.S. $33 elsewhere (U.S. funds) Licensed amateurs, or age 65 or over, upon submitting proof of age, may request the special dues rate of $20 in the U.S. $28 elsewhere, in U.S. funds) Persons age 17 and younger may qualify for special rates, write for application.

For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

VISA ______________________ Expires ________
______________ Bank. No. ________ Expires ________

F & M - Your Complete North Carolina ICOM Dealer

Now! Available Again!

IC-751A

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COMP
NB WIDE
GAIN—VOX—DELAY
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COMP
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Po
Vc
SWR
TRANSMIT
RECEIVE
MICROPHONE
GENERAL COVERAGE
PHONES
AF GAIN ⊖ RF GAIN
FUNCTION
AM FM
CW NAR
SSB REV
RTTY NAR
HAM/GENE
SPEECH
MODE-S
SCAN
SQUELCH ⊖ TONE
MIC GAIN ⊖ RF PWR
TRANSMIT
RECEIVE
NARROW
USB
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D F S
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A=B
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VFO/M
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M►VFO
MEMORY CLEAR
RIT/ΔTX
RIT
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PBT ⊖ NOTCH
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NOTCH

- **All HF Band Transceiver/ General Coverage Receiver**
- **New Design**
- **100% Duty Cycle Transmitter**
- **105dB Dynamic Range**
- **All Modes Built-In USB, LSB, AM, FM, CW, RTTY**
- **12 Volt Operation**

The new IC-751A, top-of-the-line HF base station transceiver is designed for the ham operator who demands high performance. Whether entering contests or QSY'ing for pleasure, the 100 watt IC-751A incorporates the best features of the IC-751, and brings you to the fore-front of technology with the following most-requested additions.

More CW Control. For the CW enthusiast, the new IC-751A includes an electronic keyer unit, QSK rated at up to 40WPM, standard FL-32A 9MHz/500Hz CW filter and CW sidetone to monitor your code in RX or TX modes... great for practice!

All Amateur Band Coverage. Includes general coverage reception from 100kHz to 30MHz, and may be easily modified for MARS operation.

Improved Smooth Tuning. The IC-751A features a newly designed tuning control for velvet smooth tuning.

Added LED Annunciator. For easy identification if you're using the tuning speed, dial, or band switching functions.

32 Memories. Mode and frequency data may be stored in any of 32 memories...all the memory capability that you'll ever need.

More Stable. Even in the receive mode, the IC-751A has a sophisticated thermal sensor to monitor the internal temperature. The sensor automatically activates the cooling fan which gives maximum stability ...critical for optimum performance during contests.

Newly Designed Features. The IC-751A boasts a number of newly designed features for better performance ... a new 9MHz notch filter that drastically reduces QRM, a new AGC system, a new compressor for better audio clarity, and a new AF gain control system that improves control of the CW sidetone volume.

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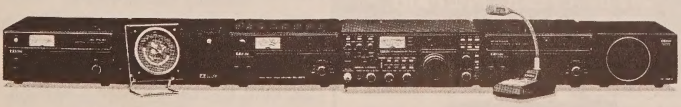

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REPEATER-CLUB-NET SERVICE PAGE

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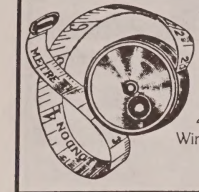

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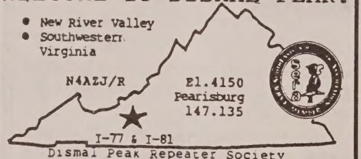

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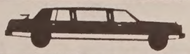

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Repeaters

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Open Letter To ARRL!

Comment

Continued from Page 33

data base to draw this information. They need only contact the SERA State Director of the State adjoining their territory. This practice which SERA has utilized for some time is working to draw the neighboring councils together, as it should be. SERA has control of its information and will pass it out only to councils who over time and actions and public support qualify to receive such information. SERAs Board approved last year, a policy of mutual respect and cooperation with all the established neighboring coordinating councils. They know this.

Repeater Journal Readers What is Your Response!

You have read the editorial this issue, describing the conflict between ARRL and the Coordinating community. Do you as a repeater owner or repeater user feel SERA is doing the right thing?

Should SERA continue to stand up to ARRL and support its fellow coordinating councils, especially MACC (Mid-America Coordinating Council) in a fight we believe is right to preserve the integrity of our organizations.

Your SERA Board of Directors feel we are doing the right thing, and are speaking as one unified voice by letters, telephone calls, and through your Repeater Journal.

Your comments are important, because SERA is you! We are changed with the responsibility of providing our seven states with coordination, information and education as to what is going on. We are your spokesman in many instances. We intend to remain a unified group, which for 17 years has tried to do what is best, and what is right for our area.

We invite you to write us your comments. You may send them directly to the Repeater Journal editor, and he will see that ALL members of the board get copies.

Although it would be impossible to publish hundreds of letters, we will outline a consensus from our readers in the February issue.

Tell us what you think. Are we right? Are we wrong? Should we do more? Should we back off? If you feel you still don't have the complete story, let us know, we'll try to fill you in, although the editorial this issue covers just about the whole story in the briefest of terms.

Hope we hear from you. Write: Wayne C. Williams, K4MOB, Repeater Journal Editor, 600 Lakedale Road, Colfax, N.C. 27235.

Thank you!

A National Data Base situation, if operated like the ARRL Repeater Directory, as far as recognized coordinators, could be entered by anyone, anywhere who "qualified" under present ARRL policies to be a coordinator. And right now, that could be just about **anyone.**

Personally we think the National Data Base is DEAD! We believe that philosophy of management has amounted to a suicide pill for the National Data Base.

Headquarters and the Directors

We tend to feel that HQ in Newington and the ARRL Board aren't talking on the same frequency. Apparently when the problems flared up concerning the Repeater Directory and the coordinators, some involved Directors were not informed. We were told that SERA should have notified them. SERA was busy working with our own board, seeing that they stayed informed as to what was happening. Headquarters should have done the same thing -- seen that their Division Directors were totally informed.

We have been asked if the SERA board is "pro" or "anti" ARRL. We can assure you that we are "pro" ARRL and will continue to remain that way. But we ask the same treatment from ARRL. You have got to remain "pro" SERA and MACC and all the other established coordination councils who have worked with you for so many years. Stand behind us, and don't abandon our ship if someone starts shooting at us, stand up and fight with us. It is the only right way. Then you can expect our support for you.

During this election time for several ARRL Division Directors and Vice-Directors, some of them have asked us, "Will SERA support us?" Our stock answer has been, "Will you as ARRL Division Director support SERA?"

— Carter Cogle, K4ARO, SERA Pres.
— Wayne C. Williams, K4MOB, Editor
— Ray K. Adams, N4BAQ, SERA Treas.

(Editor's Note: Readers are reminded that SERA and its Board of Directors are very "Pro" ARRL. The situation described in our editorial points out the problems being faced by all coordinators when the ARRL fails to work with them in a united effort. The FCC has made coordination extremely difficult. SERA and MACC believes the ARRL should be working with us, not making the situation tougher. It is this end result we are pushing for.)

Packet "Aliases" To Be Inserted In Repeater Index

In our continued effort to make the Repeater Journal more to the liking of our readers, we will start listing the popular "aliases" of Packet Digipeters in the Repeater index beginning with the February, 1989 issue of the Repeater Journal.

The Copyrighted Repeater Journal Index will list Packet Digipeters only if they are unattended units operating solely as Digipeaters.

David Ward, KA4LVO said a few software changes will be made in the Packet listings of our index to enable the "aliases" to be listed as we receive them.

The job of changing the listings will begin immediately even as you read this. Owners of Digipeaters who wish to have their Aliases listed with their Packet machine in our index are encouraged to send the information directly to the Editor of the Repeater Journal. Be sure to include ALL the information as it is listed in the Repeater Index, along with the Alias identifier.

"SPACHL" New Voice Space News

(Westlink) -- A new dial-up Voice space news service has been placed on line. Named SPACHL (pronounced "spackle"), the SPace ACtivities Hot Line carries the very latest news on Amateur Radio satellite operations, related radio nets and general world space activities.

The 5-minute recorded announcement carries details of times and frequencies. It might be a good idea to record the bulletin since it goes by pretty fast and there are many details and numbers given.

With SPACHL, OSCAR users can also get free technical device on getting their stations running and keeping them in tiptop shape.

Dial (914) 986-3875 twenty-four hours a day. Leave a short message on the recorder, indicating your name, callsign, telephone number, the time of day you prefer to be called and the nature of your problem. An expert in that field will call you COLLECT in a week or less and provide free guidance on getting your OSCAR station operating.

Bulletins on SPACHL will be updated at least daily to assure you get the latest scoop on what's happening.

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A Way Out Of Interference

How To Handle Your Repeater Problems

— by Wayne Williams, K4MOB

A REPEATER JOURNAL
SPECIAL SECTION

One of the most frustrating problems a repeater owner can face is one of interference. It disrupts normal operation. It makes tension high with your users and causes friction with users and owners.

There are many kinds of repeater interference problems. Some are internally -- caused by the repeater itself. There are problems of interference caused by harmonic radiation of other repeaters -- sometimes the sum of two signals, minus the I.F. frequency of another, and so on. Sometimes desence causes noises on a machine, making it key up by itself. Sometimes the noises created by these problems actually interfers with users signals. Dozens of mechanical as well as electrical things on a repeater can cause problems in the system.

Common problems of interference with repeaters is signals from a co-channel repeaters users keying up your repeater, or the output of another repeater breaking the squelch or keeping yours and your users receivers open.

Normally, hearing other repeaters on your channel can be eliminated by lowering your transceivers antenna, or have a smaller antenna for listening to the local machine.

The user problem, is the one we want to discuss because this problem is made by humans. Most of the earlier problems we mentioned can be repaired by the engineer of the repeater, or by small adjustments to your home system, but the last problem involves people and must be handled quite differently. You can't turn a screw or adjust a level and cancel out this type interference.

First Things First

When you are experiencing problems with users of other machines, you need to carefully do some preliminary work before you swing into action.

(1) What are the band conditions when you hear the problem.

(2) Is the source of the problem from use of a new machine? Have you recently changed anything on your machine? (antenna height, location change).

(3) If you have determined that the problem is a constant one, under ALL band conditions, when did it start?

(4) Get on the telephone to a couple of your key people, especially some with "big" antenna systems, and ask them to listen on your repeater's inputs and outputs. Determine where and who is causing the interference to your machine.

(5) One BIG thing -- DON'T talk about your problems on the repeater. Don't allow your users to talk about the problem on the air. Use the telephone! Keep a cool head, and try to keep your repeater users cool while the situation is being investigated. And document everything!

Investigation Completed

So your investigation has been completed and you have determined that the problem is a result of a new repeater being placed co-channel to yours 110 miles away. The distance tells you that the Coordination process is probably okay, so your next step is to plan your strategy.

You log of just who has been keying your repeater, shows that only 3 or 4 people on this "new" machine are actually getting into your machine. So we now know that the basic repeater isn't a problem, just a few users of that repeater. So far, you have been able to keep your users quiet, so you know there should be no conflict with the other machine from your end.

Your next step is to write a **nice** and we emphasize the word **nice,** letter to the trustee of the repeater involved. Outline to him/her that your repeater is being interferred with by a few of their users. Give names, calls and times of the persons who you have found to be the "culprits".

Ask the repeater owner if he would be kind enough to speak to the persons named by telephone and see what steps they can make to cut down the interference to your machine. (reduce power, go to a smaller antenna system, adjust beam headings). Tell the owner in your letter, you understand problems like this occur occasionally, and you are sure that he like you, do not want to cause any problems to anyone elses system.

One thing that is important -- in your letter, do not be threatening. Do not place the blame on that repeater owner. Tell him the true cause of what you have heard, and don't overstate your case.

"We're getting massive interference from people working your new repeater", will immediately place the letter recipient on guard. Be brief, to the point, and truthful in your letter.

Most of the time, this repeater owner will immediately take steps to help you get the problem solved.

Situation Still Exists

If you get no answer from the other repeater owner in a reasonable period of time, and the interference still persists. This time write the various users involved a letter, detailing what you have heard. Remember to be courteous and ask for their assistance in eliminating the problem. Send a copy of the letters to the repeater owner.

Most of the time, this will do the job, and your problems will cease. It must be emphasized that a new repeater owner is very sensitive about complaints and criticism of his machine, so you want to be cordial and polite in all your dealings with them. Telephone conversations should be equally polite. If you get a person mad because of your irritation, you certainly can't expect cooperation from him.

Sometimes, if it is feasible, a eyeball to eyeball meeting of the persons involved can do a trick.

I have always said over the years that 99% of the time, if two people in conflict can sit down over a cup of coffee and talk gentlemanly toward one another, they can accomplish wonders, and solve any problem. Mutual respect and a willingness to solve a problem together is the key ingredient.

I have been involved in several arbitration meetings between repeater owners over the years. No two have been alike, but I have found that ANY repeater owner starts off the meeting feeling trapped and is on the defense, thinking he is being railroaded into a situation that he doesn't feel is his fault. This situation must be overcome before any kind of negotiations can begin. Attitudes of those present will determine the outcome.

Fortunately, we have seen solutions come from 99% of these meetings. When two gentlemen get together with a group, even though they oppose each other, a gentlemanly conducted meeting will result in someone bending a little to solve the problem.

SERA Cannot Do Your Work For You

Back to the interference problem. When you get interference, don't immediately call your SERA Frequency Coordinator yelling, "So and so's interfering with my machine. I want you to get those clowns off the air."

This isn't the way it works. SERA becomes involved ONLY when two repeater groups have met and attempted to solve a situation but for some reason cannot find a solution. Both parties generally agree to ask SERA to step in as an impartial arbitrator. Even then, SERA is going to want a complete report and documentation of what steps you have taken yourself. If you can get the problem solved with the other repeater group, it will go a lot better in the future. Calling SERA merely adds fuel to the fire for the other repeater owner, because he thinks you are ganging up on him.

Work with other repeater owners in a fashion you'd like them to work with you. You'll be delighted and surprised what can be accomplished.

In extreme cases, sometimes one repeater may have to change frequencies

(Continued on Page 50)

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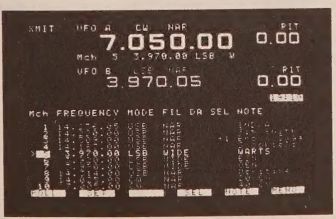

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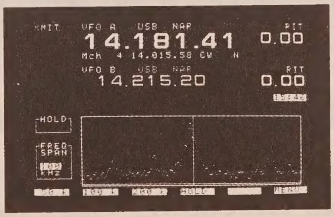

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SERA Board Meeting in Pictures

Working and Eating at Board Meeting

Handling Repeater Problems

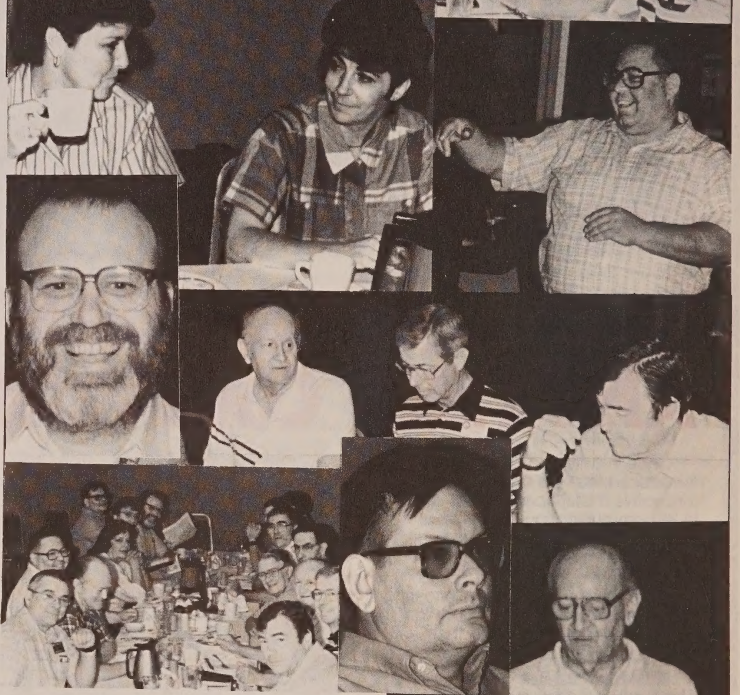
(Continued from Page 47)

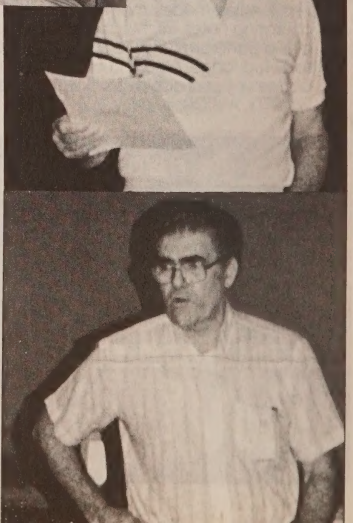
to solve a problem. This isn't the end of the world. Todays radios go anywhere on the 2-Meter band, so who cares what frequency you're on. People work your machine because there is something about it they like, whether it be the other users, or the warm feeling you generate to your people. What frequency you are on has nothing to do with it.

Several of the cases I mentioned above involved one repeater changing frequency. He was the one who came out on top, because of his willingness to bend a little, his users and most especially the other repeater owners and users gave him the respect he deserved for the decision to put the goodness of Amateur Radio above his own pride.

My desk, as well as any SERA Frequency Coordinator is always available to give you hints on how to handle a situation. Don't ask us to do your work, but we'll be glad to use our experience to help you along, as **you** do the job.

SO, if you experience difficulties in the future, know what to do. Above all, do it right! You'll benefit in the long run. Amateur radio will also benefit.





Electronic Enthusiasts, Spouses of "Hams", People of all ages

The Raleigh Amateur Radio Society Presents:

Amateur Radio Licensing Classes

open to anyone with an interest in public service, world communications, or electronics.

Classes begin at the McKimmon Center on the NC State Campus on September 12th an continue on Monday and Thursday evenings (7:00 to 9:00 PM) until October 20, 1988.

The course of study includes regulations, simple electronic theory, and Morse code to prepar for FCC Amateur Radio examinations for Novice and Technician licenses. Note : This is a entry level course. No prior study required.

Cost — NCSU Fee: $12 Text and materials: $15-25

To Register, call NCSU McKimmon Center at 737-2265.
For further information call club members Jim DuBreck at 781-9437 (evenings) or Vince Yakamavich at 847-8512 (evenings), 850-5390 (work).

The Raleigh (NC) ARS had a nifty handout printed up to promote Amateur Radio Classes. The original size of the poster was 11 x 17 inches. All the information needed for anyone to enroll was enclosed in the handout which the club passed out wherever possible in the area.

Coming Events

SERA REPEATER JOURNAL CALENDAR OF EVENTS

NOVEMBER 1988

5-6...Ham Radio Comp. Expo '88, LAWRENCEVILLE, GA.
5-6..................Hamfest, FT. LAUDERDALE, FL.
6........................Hamfest, CONCORD, N.C.
19..........................Hamfest, SUMTER, S.C.
19-20..............ARRL SE Conv/Hamfest, TAMPA,FL.
19-20.....................Hamfest, MONTGOMERY, AL.
26-27....................Hamfest, GREENSBORO, N.C.

JANUARY, 1989

14........................Hamfest, GREENWOOD, S.C.
15........................Frostfest, RICHMOND, VA.
21..........................Hamfest, FT.MYERS, FL.
28.........................Hamfest, INVERNESS, FL.
28.......................Hamfest, SEVIERVILLE, TN.
29........................Hamfest, GREENVILLE, AL.
29*.......................Hamfest, INVERNESS, FL.

FEBRUARY, 1989

4-5..................Tropical Hamboree, MIAMI,FL.
18-19......................Hamfest, SARASOTA, FL.
18-19.....................Hamfest, PENSACOLA, FL.
19*.........................Hamfest, STUART, FL.
19...........................Hamfest, ELKIN, N.C.
25...........................Hamfest, DALTON, GA.
25......................Hamfest, CHARLESTON, S.C.
25*......................Hamfest, BROOKVILLE, FL.
25-26.........Ohio St. ARRL Conv., CINCINNATI, OH.
26..........11th Annual Hamfest, FAYETTEVILLE, WV.
26*.......................Winterfest, VIENNA, VA

MARCH, 1989

4.......................Swapfest, MORRISTOWN, TN.
4-5*......................Hamfest, LAFAYETTE, LA.
5*................2nd York Winterfest, DOVER, PA.
5*..........................Hamfest, DALTON, GA.
5*.....................Hamfest, MAMMOTH CITY, KY.
18-19.....................Hamfest, CHARLOTTE, N.C.
18-19..............Swapfest, FT. WALTON BEACH, FL.
25-26*....................Hamfest. COLUMBUS, GA.
26*........................Hamfest, TIMONIUM, MD.

APRIL, 1989

1*..........Chesapeake Tailgater, CHESAPEAKE, VA.
1.............Hamfest Kennehoochie, MARIETTA, GA.
7-8-9.....................Hamcation, ORLANDO, FL.
8*.........Hamfest/Computer Show, CHARLESTON, WV.
9*.......................Hamfest, OAK RIDGE, TN.
9*......................Hamfest, MORRISTOWN, TN.
14-15........Regional AWA Meet, WINSTON-SALEM, N.C.
16......................RARS Hamfest, RALEIGH, N.C.
28-29-30..................Hamvention, DAYTON, OH.

MAY, 1989

6-7*..,..................Hamfest, GREENVILLE, S.C.
13-14*.......................Hamfest, TOCCOA, GA.
13-14*....................Hamfest, BIRMINGHAM, AL.
20*.......................Hamfest, KNOXVILLE, TN
21...................TSRAC Hamfest, WHEELING, W.V.
27........................DurhamFest, DURHAM, N.C.
28................29th.RVARC Mayfest, ROANOKE, VA.
28*.........................Hamfest, CHIPLEY, FL.
28*..........FM Assn. Hamfest, W. FRIENDSHIP, MD.

JUNE, 1989

2-3-4.......ARRL Nat'l Conv., DALLAS/FT.WORTH, TX.
3*..........................Hamfest, ATHENS, GA.
3-4*.............Clev. ARC Hamfest, CLEVELAND, TN.
4*.........................Hamfest, COLUMBUS, OH.
4*.........John Ross Hamfest, FT. OGLETHORPE, GA.
4*.........................Hamfest, COLUMBUS, OH.
4*..........................Hamfest, HUMBOLT, TN.
4..........................Hamfest, MANASSAS, VA.
4*...........................Hamfest, MUNCIE, OH.
10*...................Hamfest, WINSTON-SALEM, N.C.
16-17..........Ga.St.ARRL Conv/Hamfest, ALBANY, GA.
18*.......................Hamfest, FREDERICK, MD.

JULY, 1989

1-2*......WV State ARRL Conv., JACKSON'S MILL, WV.
8*....................Hamfest, SPRUCE PINES, N.C.
8-9*....................HamFestival, ATLANTA, GA.
15*....................Summer Swapfest, CARY, N.C.
30*..............BRATS Hamfest, W. FRIENDSHIP, MD.
30*.................WCARS Hamfest, ASHEVILLE, N.C.

AUGUST, 1989

5-6.....................Hamfest, JACKSONVILLE, FL.
5-6*......................HamConm, SHREVEPORT, LA.
6*............Winchester Hamfest, BERRYVILLE, VA.
6*................Jax County Hamfest, RIPLEY, WV.
7*........................Hamfest, LEXINGTON, KY.
19-20............SE Div.ARRL Conv. HUNTSVILLE, AL.
25-27......ARRL SW Div Conv/Hamcomm, LES VEGAS, NV.
26-27........................Hamfest, MADISON, GA.
27*................Hamfest, CEDARS OF LEBANON, TN.

SEPTEMBER, 1989

1-3*............ARRL SW Div. Hamcom, ANAHEIM, CA.
1-3*............32nd Annual Hamfest, SHELBY, N.C.
9-10*.....................Hamfest, MELBOURNE, FL.
9-10*........................Hamfest, MOBILE, AL.
9-10*....................Hamfest, LOUISVILLE, KY.
10*........Foundation AR Hamfest, GAITHERSBURG, MD.
16-17.........Hamfest/Computer, VIRGINIA BEACH, VA.
16-17................Cincy Hamfest, CINCINATTI, OH.
17*.......................Hamfest, CLEVELAND, OH.
23*...................Hamfest, SPRUCE PINES, N.C.
23*........................Hamfest, ANNISTON, AL.
24*........Hamfest, Lanierland ARC, GAINSVILLE, GA.
30*.................TARA, Hamfest, HUNTINGTON, WV.
Sep.30-Oct.1..................Hamfest, BILOXI, MS.

OCTOBER, 1989

1*.............................Hamfest, ROME, GA.
7-8*......Central Ga. Hamfest, WARNER ROBBINS, GA.
7-8*......................Hamfest, VERO BEACH, FL
8*........................Hamfest, MAYSVILLE, N.C.
13-14.......................Hamfest, MEMPHIS, TN.
13-15*...........11th Ham Com-Vention, HOUSTON, TX.
14*..................Tri-Cities Hamfest, GRAY, TN.
14-15*.................Hamfest, W.PALM BEACH, FL.
15*.......................Hamfest, ROCK HILL, S.C.
20-22*....................Comvention, HOUSTON, TX.
21-22*................Georgialina HF, AUGUSTA, GA.
28-29*...................Hamfest,CHATTANOOGA, TN.

Changes, additions, corrections or confirmations may be sent to Journal Editor, WAYNE C. WILLIAMS, K4MOB, 600 LAKEDALE ROAD, COLFAX, N.C. 27235. LATE CHANGES may be called in: (800) 523-0347. Journal deadlines are Jan. 15 (Feb issue), Apr.15 (May issue), Jul 15 (Aug issue) and Oct 15 (Nov issue).

Asterisk (*) indicates date NOT Confirmed! 10-21-88

SERA Financial Report

— by Ray Adams, N4BAQ, Treas.

SouthEastern Repeater Association, Inc.

FINANCIAL REPORT FROM JANUARY 1 TO SEPTEMBER 30, 1984, 1985, 1986, 1987, AND 1988

REVENUE	1984	1985	1986	1987	1988
Advertising	$ 5,127.50	$ 5,222.35	$ 5,827.75	$ 3,671.50	$ 5,792.00
Associate Membership Dues	7,408.25	8,791.63	9,548.00	8,983.00	9,729.50
Full Membership Dues	1,450.00	2,516.50	2,488.75	2,789.50	3,394.00
Decals	-0-	224.50	63.50	16.00	116.50
Postage - includes HOT-P	-0-	87.00	205.50	202.50	103.50
Interest	-0-	24.29	190.66	306.31	425.97
Hats	-0-	101.50	123.37	33.00	47.50
Contributions	-0-	-0-	182.00	102.00	-0-
Other	49.75	23.00	83.64	14.00	12.00
TOTAL REVENUE	$14,035.50	$16,990.77	$18,713.17	$16,117.81	$19,620.97
EXPENSES					
Journal Mailing	$ 1,856.65	$ 1,588.25	$ 2,509.74	$ 1,930.57	$ 2,061.44
Journal Printing	11,028.31	11,436.56	9,427.53	12,273.44	12,012.71
Miscellaneous Expenses	2.35	578.78	-0-	69.95	100.00
Travel and Meetings	534.19	768.68	1,428.90	2,051.22	1,241.72
Office Expenses	21.25	234.30	31.35	171.10	208.65
Amortization of Office Machines	448.00	448.00	448.00	875.63	862.24
Postage other than journal	101.86	419.00	321.44	336.48	898.79
Printing other than journal	242.17	987.99	168.32	571.62	494.76
Telephone	241.24	275.47	465.62	349.67	732.04
TOTAL EXPENSES	$14,476.02	$16,737.03	$14,800.90	$18,629.68	$18,612.35
ENUE OVER (UNDER) EXPENSES	($ 440.52)	$ 253.74	$ 3,912.27	($ 2,511.87)	$ 1,008.62
Balances, beginning of year					
Expenses Advanced	$ 800.00	$ 900.00	$ 950.00	$ 900.00	$ 900.00
Cash in Bank	2,507.39	1,413.04	2,107.05	5,690.15	7,252.05
Invested in Office Machines	1,792.00	1,344.00	896.00	2,571.63	1,696.00
	$ 5,099.39	$ 3,657.04	$ 3,953.05	$ 9,161.78	$ 9,848.05
EQUITY TO ACCOUNT FOR	$ 4,658.87	$ 3,910.78	$ 7,865.32	$ 6,649.91	$10,856.67
Less: Expenses Advanced	$ 900.00	$ 900.00	$ 900.00	$ 900.00	$ 900.00
Invested in Office Machines	1,344.00	896.00	448.00	1,696.00	3,026.00
	$ 2,244.00	$ 1,796.00	$ 1,348.00	$ 2,596.00	$ 3,926.00
CASH IN BANK	$ 2,414.87	$ 2,114.78	$ 6,517.32	$ 4,053.91	$ 6,930.67

Advertise Your Hamfest With A Full Page Ad In The Repeater Journal!

WHERE TO BUY DIRECTORY

Advanced Computer Controls (ACC) (CA).....46
Alinco Electronics (CA).........Ins.Ft.Cover
ARRL (Area Divisions)....................42
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Dual Band Radios from ICOM! Double your operating pleasure with Icom's new dual band IC-3210 mobile and IC-32AT handheld FM transceivers. Each unit incorporates a wealth of special features and options designed to move you into the forefront of today's expanded 2-meter and 440MHz activity. Icom dual banders: the FM enthusiasts dream rigs!

Wideband Coverage. Both the IC-3210 and IC-32AT receive 138 to 174MHz including all NOAA weather channels, transmit 140 to 150MHz including MARS/CAP, and operate 440 to 450MHz. Total coverage of today's hottest FM action!

Full Duplex Operation. Simultaneously transmit on one band while receiving on the other for incomparable dual band autopatching!

20 Memories. Store any combination of standard or odd repeater offsets and subaudible tones.

Powerful! The IC-3210 delivers 25 watts output on both bands. The IC-32AT is five watts output on both bands. Selectable low power for local use on both units.

Programmable Band and Memory Scanning. Includes easy lockout and recall of various memories. Exceptional flexibility!

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Priority Watch. Monitor any channel for calls while continuing operation on another frequency.

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All stated specifications are subject to change without notice or obligation. All ICOM radios significantly exceed FCC regulations limiting spurious emissions. 321032AT688

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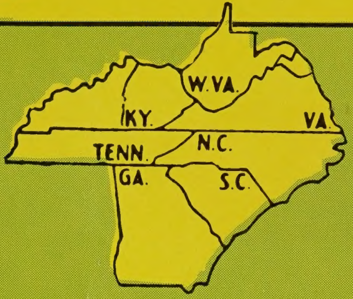

"In Our 17th Year
Of Service
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Contact Your Local Director or His Assistants for help in Frequency or Repeater Coordination, Changes in Repeaters, or any other Assistance you need.

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